

TC-V925E

SERVICE MANUAL

AEP Model
UK Model


TC-V925E is the
cassette deck
section in LBT-V925CD.



Model Name Using Similar Mechanism	TC-V901	
Tape Transport Mechanism Type	DECK A	TCM-170RA4
	DECK B	TCM-170RB10

SPECIFICATIONS

Recording system	4-track, 2-channel stereo
Frequency response	DOLBY NR OFF (DIN) With TYPE IV cassette (SONY METAL-ES) 30 to 15,000 Hz ± 3 dB With TYPE II cassette (Sony UX-S) 30 to 14,000 Hz ± 3 dB With TYPE I cassette (Sony HF-S) 30 to 13,000 Hz ± 3 dB
Wow and flutter	± 0.2 % (DIN)
AC outlet	1 unswitched, max. 100 W
Dimensions	355 \times 133 \times 308 mm (w/h/d) (14 \times 5 $\frac{1}{4}$ \times 12 $\frac{1}{8}$ inches) Incl. projecting parts and controls
Weight	Approx. 4.6 kg (10 lb 3 oz)

Dolby noise reduction manufactured under license from
Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol  are trademarks of
Dolby Laboratories Licensing Corporation.



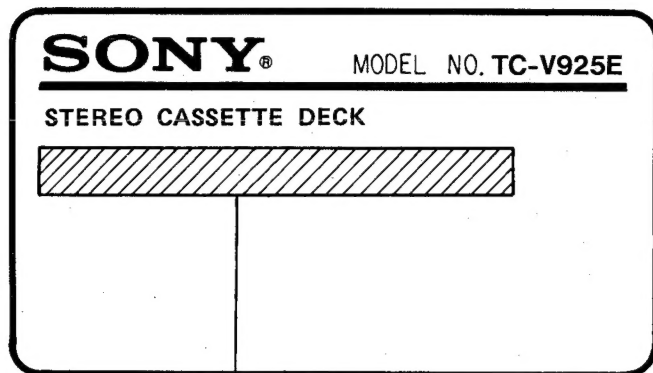
STEREO CASSETTE DECK
SONY®

SECTION 1 GENERAL

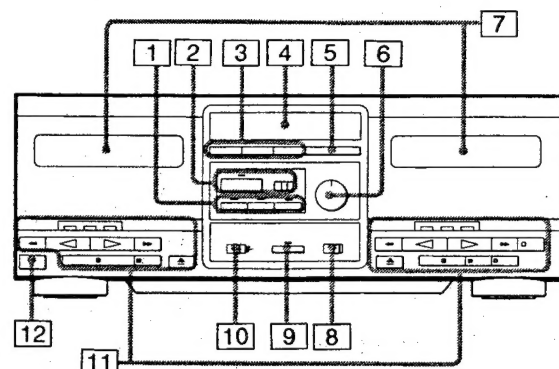
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MODEL IDENTIFICATION (Specification Label)



AEP, Italian model: AC 220V~50/60Hz 28W
UK model: AC 240V~50/60Hz 28W



- 1** SYNCHRO (synchronized) DUBBING and AUTO (automatic) PAUSE buttons and indicators
- 2** AUTO CD SYNCHRO (automatic CD synchronization) button and mode selector
- 3** Counter setting buttons
- 4** Display window
- 5** CCLA (Computer Controlled Level Adjustment) button
- 6** REC (recording) LEVEL control
- 7** Cassette holders
- 8** DOLBY NR (Noise Reduction) switch
- 9** AMS (Automatic Music Sensor)/BLANK SKIP button
- 10** DIRECTION MODE selector
- 11** Tape operation buttons and direction mode indicators
 ◀◀: Leftward fast winding, ▶▶: Rightward fast winding,
 ◀: Reverse play, ▶: Forward play, ■: Stop, || PAUSE: Pause,
 ○ REC MUTE: Recording mute (deck B only),
 ● REC: Recording (deck B only), ▲: Eject
- 12** POWER switch

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 2 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

Unscrew the four case attachment screws M3×8 and remove the upper case.

MAIN BOARD

3 SHIELD PLATE (MDB)

2 SCREW
BVTT3×8

2 TAPPING SCREW

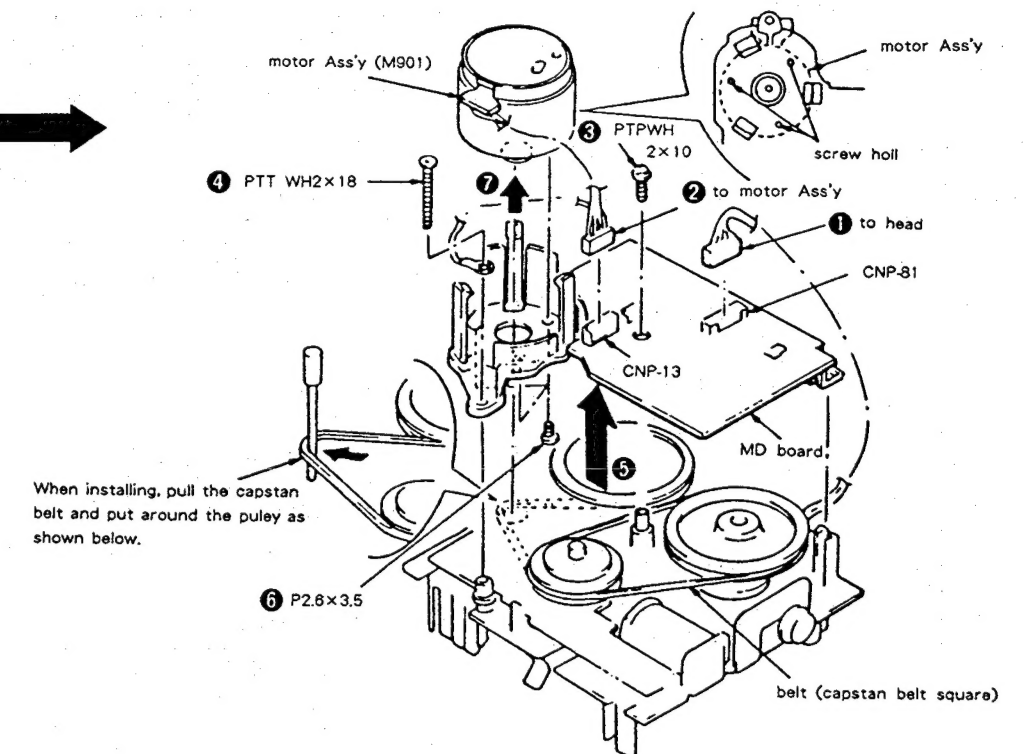
4 SCREW
BVTT3×6 (3 PCS)

5 Remove the board holders using a pair of pliers.

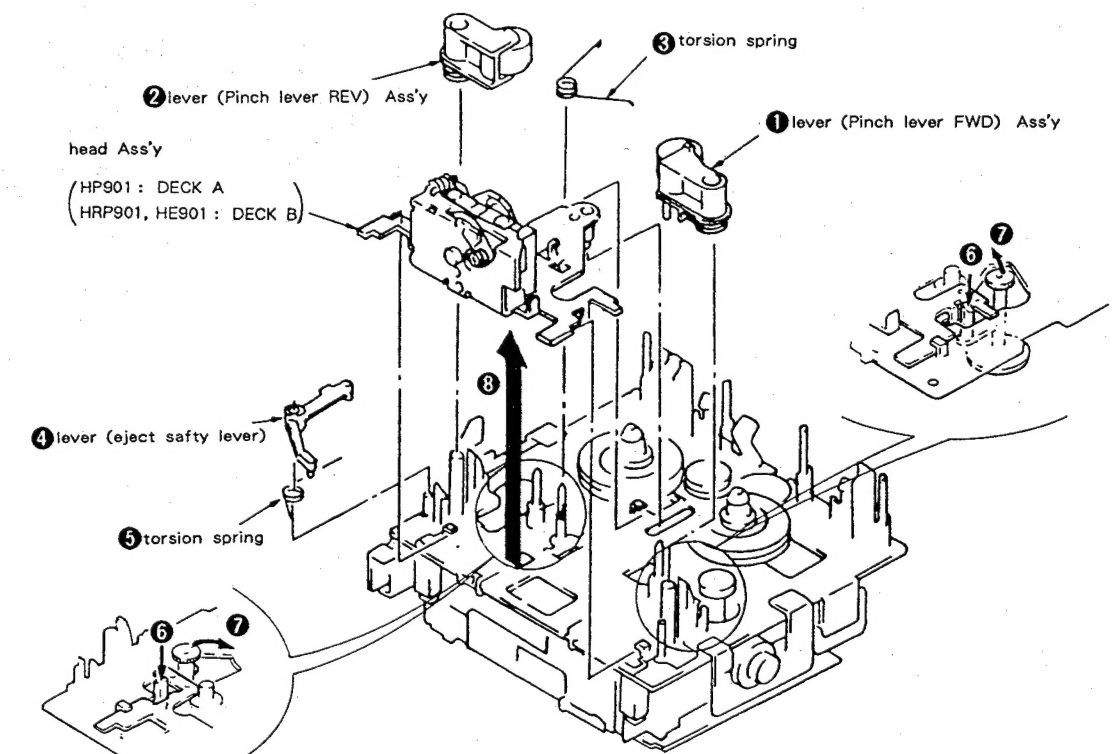
The main board will come off together with the back panel.

- 1 Press the eject button and remove the cassette lid by sliding it upward.
- 2 Remove the front panel assembly (incl. MD part). Remove the connector and printed circuit board holder from the MD board, and remove the connector board and HXPRO board.
- 3 Remove the connectors of the main board. (CN12 and CN82 are connected to the MD board, CN11 is connected to the leaf SW board.)
- 4 Unscrew four MD attachment screws B2.6×8.
- 5 Remove the cassette holder assembly, and the cassette holding plate in that order.

MOTOR Ass'y



HEAD Ass'y



SECTION 3 ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENT

PRECAUTION

- Clean the following parts with a denatured-alcohol-moistened swab:
record/playback head pinch roller
erase head rubber belts
capstan idler
- Demagnetize the record/playback head with a head demagnetizer.
- Do not use a magnetized screwdriver for the adjustments.
- The adjustments should be performed in the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque Meter	Meter Reading
FWD	CQ-102C	27 to 75 g*cm (0.38 to 1.04 oz*inch)
FWD Back Tension	CQ-102C	1 to 10 g*cm (0.014 to 0.13 oz*inch)
REV	CQ-102RC	27 to 75 g*cm (0.38 to 1.04 oz*inch)
REV Back Tension	CQ-102RC	1 to 10 g*cm (0.014 to 0.13 oz*inch)
FF, REW	CQ-201B	95 to 165 g*cm (1.33 to 2.29 oz*inch)

3-2. ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in the service manual. As a rule, adjustment about playback should be performed before adjustment about recording.

The adjustments should be performed for both L-CH and R-CH.

- Switches and controls should be set as follows unless otherwise specified.

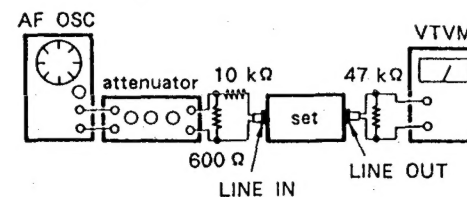
DOLBY NR switch : OFF

DIRECTION MODE switch : \Rightarrow

- Standard Record:

Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

— Record Mode —



• Standard Input Level

input terminal	LINE IN
source impedance	10 kΩ
input level	0.25 V (- 10 dB)

• Standard Output Level

output terminal	LINE OUT
load impedance	47 kΩ
output level	0.44 V (- 5 dB)

• Test tape

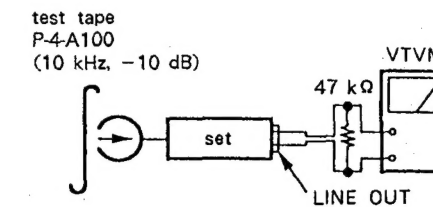
Type	Signal	User for
P-4-A100	10 kHz, - 10 dB	Azimuth Adjustment
P-4-L300	315 Hz, 0 dB	PB Level Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment

Record/Playback Head Azimuth Adjustment

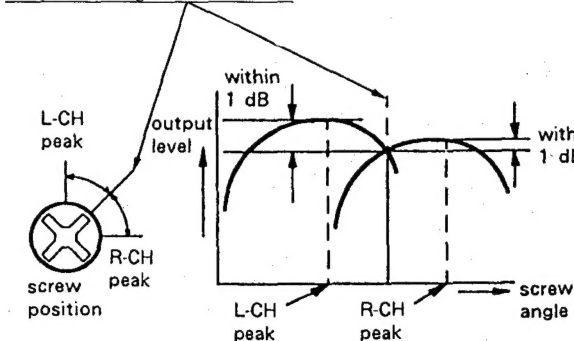
DECK A DECK B

Procedure:

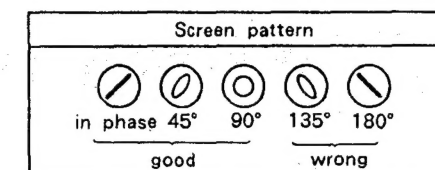
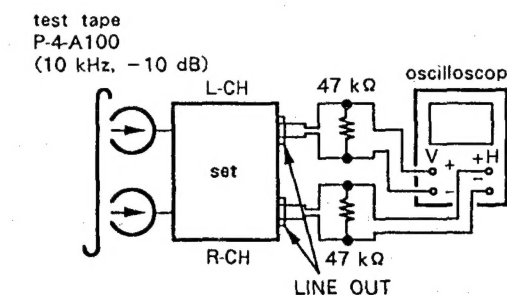
- Mode: FWD playback



- Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1dB.

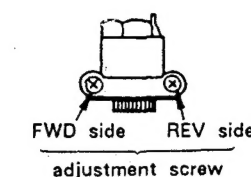


- Phase Check
Mode: playback



- Set in the REV mode and repeat the step 1 - 3.
- After the adjustment, lock the screws with locking compound.

Adjustment Location: record/playback head

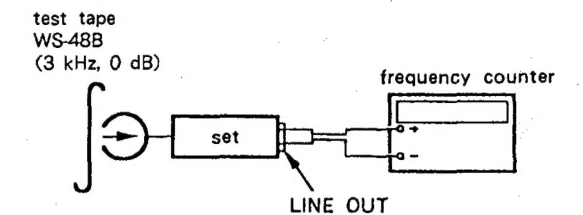


Tape Speed Adjustment DECK A DECK B

Perform high speed adjustment before normal speed adjustment.

Procedure:

Mode: FWD playback



[High Speed Adjustment]

- Short test pin TP1 on main board.
- Put the set to FWD playback state.
- Press and keep on pressing HIGH SPEED DUBBING switch (S802 on FL board).
- On this time, adjust with the semi-fixed variable resistors (H) on the rear side of M901A (Deck A) and M901B (Deck B) so that the reading on the frequency counter becomes the adjust-ment limits.
- After adjustment, release the short on TP1.

[Normal Speed Adjustment]

- Put the set to FWD playback state.
- On this time, adjust with the semi-fixed variable resistors (L) on the rear side of M901A (Deck A) and M901B (Deck B) so that the reading on the frequency counter becomes the adjust-ment limits.

Adjustment Limits:

Speed	Frequency Counter
high	5,960 ± 60 Hz
normal	2,980 ± 30 Hz

Frequency difference between the beginning and the end of the tape should be within 3%.

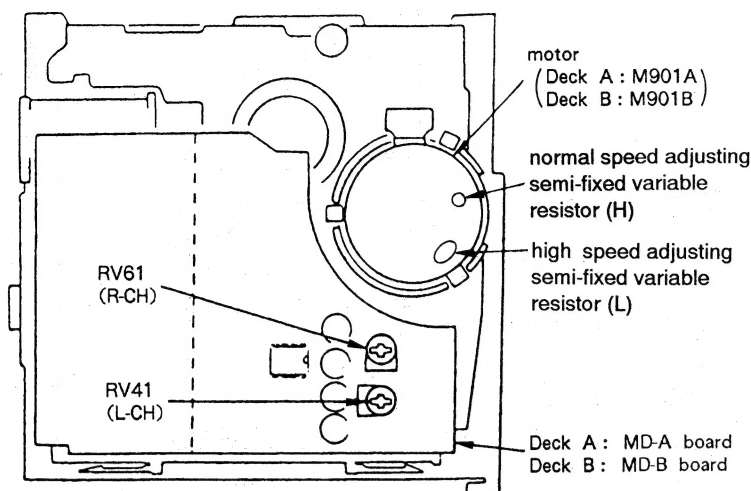
Frequency difference between Deck A and Deck B the beginning of the tape should be within 1.5%.

Adjustment Location:

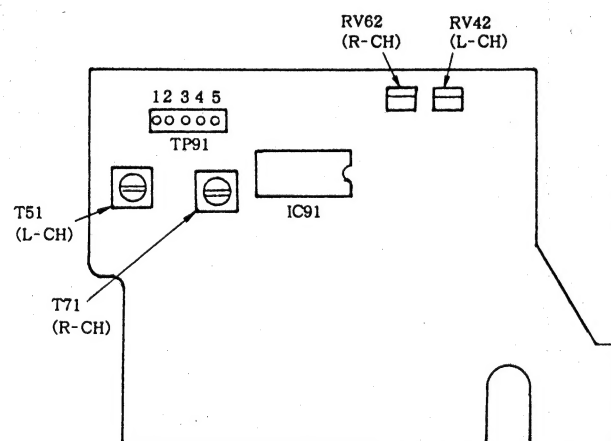
Deck A: motor (M901A) rear side
Deck B: motor (M901B) rear side

SECTION 4 DIAGRAMS

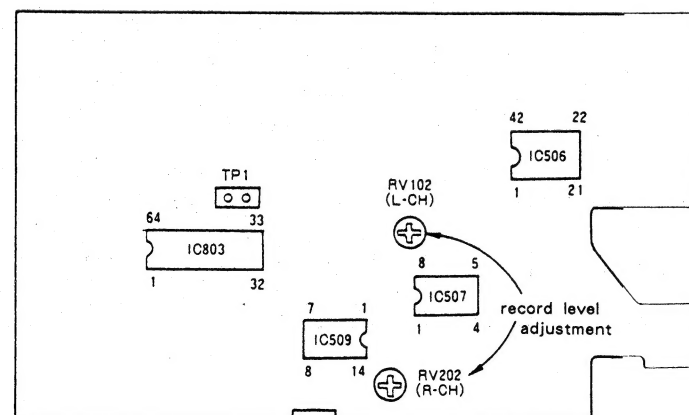
—Adjustment Parts Location Diagram—



HX PRO board (Component side)



MAIN board (component side)



4-1. M50964-210SP (IC803)

No.	PIN NAME	SIGNAL	I/O	FUNCTION
1	Vcc			Power supply
2	AVss			Ground
3	VREF			Power supply
4	D/A	Cμ OUT	O	Data output to counter microcomputer
5	PWM			Not used
6	P63	AMS	O	LED output (L:light on)
7	P62	A▶	O	LED output (L:light on)
8	P61	A◀	O	LED output (L:light on)
9	P60	A PLAY	O	LED output (L:light on)
10	AN7	Cμ IN	I	Data input from counter microcomputer
11	AN6			Not used
12	AN5	B HALF DET	I	Cassette half detection and erase proof tab detection for deck B
13	AN4	KEY Z	I	Input from operation switches
14	AN3	KEY Y	I	Input from operation switches
15	AN2	KEY X	I	Input from operation switches
16	P41	B▶	O	LED output (L:light on)
17	P40	B◀	O	LED output (L:light on)
18	P37	B PLAY	O	LED output (L:light on)
19	P36	B II	O	LED output (L:light on)
20	P35	B●RELAY	O	LED output (L:light on)
21	P34	NR B/C	O	Dolby NR B/C select
22	P33	NR ON/OFF	O	Dolby NR ON/OFF select
23	P32/INT2	AUB IN	I	AUDIO BUS input
24	P31	70/120	O	70μS playback equalizer select deck
25	P30	AUB OUT	O	AUDIO BUS output
26	INT1	AUB IN	I	AUDIO BUS reverse input
27	CN Vss			Ground
28	RESET		I	Reset signal input
29	X IN		I	4.00MHz oscillation signal input
30	X OUT		O	4.00MHz oscillation signal output
31	φ			Not used
32	Vss			Ground
33	P57	TEST	I	Test mode input
34	P56	DIR B	I	Deck B direction switch input
35	P55	B 70/120	I	Deck B 70/120μS switch input
36	P54	B SHUT	I	Deck B reel table rotation detect (the mechanism is shut off after one second with no signal change)
37	P53	A 70/120	I	Deck A 70/120μS switch input
38	P52	A SHUT	I	Deck A reel table rotation detect (the mechanism is shut off after one second with no signal change)
39	P51	A HALF DET	I	Cassette half detection for deck A
40	P50	AMS IN	I	AMS signal input
41	P17	M MUTE	O	Meter mute output (not used)
42	P16	L MUTE	O	Line mute output (L:mute)

No.	PIN NAME	SIGNAL	I/O	FUNCTION
43	P15	PASS	O	Pass amp select output
44	P14	REC/PB	O	REC/PB select output (L:record)
45	P13	AMS/BS	O	AMS/BS amp select output
46	P12	AMS A/B	O	AMS/BS amp deck A or deck B select (L:deck B)
47	P11	SEL A/B	O	AMS/BS amp deck A or deck B select (L:deck B)
48	P10	BIAS	O	Deck B record bias select
49	P07	REPLAY	O	REC/PB switching relay output
50	P06	B PM	O	Output to hold deck B solenoid
51	P05	B KICK	O	Output to kick deck B solenoid
52	P04	A PM	O	Output to hold deck A solenoid
53	P03	A KICK	O	Output to kick deck A solenoid
54	P02	BM H/L	O	Deck B capstan motor high speed/normal speed select (H: high speed dubbing or FF/REW)
55	P01	AM H/L	O	Deck A capstan motor high speed/normal speed select (H: high speed dubbing or FF/REW)
56	P00	M ON/OFF	O	Capstan motor ON/OFF output (H:STOP)
57	P27	B R MUTE	O	Deck B record mute signal output (H:mute)
58	P26	35μSEC	O	Deck A is set to L at 70μsec during high speed dubbing.
59	P25	AP LED	O	LED output (L:light on)
60	P24	DUB H	O	LED output (L:light on)
61	P23	DUB N	O	LED output (L:light on)
62	P22	CD DUB	O	LED output (L:light on)
63	P21	A II	O	LED output (L:light on)
64	P20	J600/J700	I	Terminal of version setting (this set is H)

• Test Mode

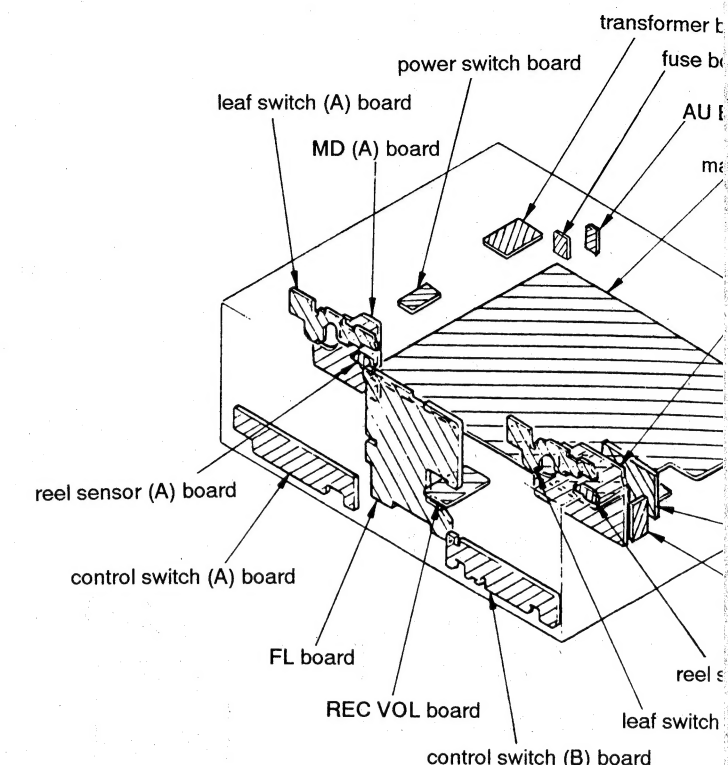
When making pin ③ of IC803 low (connect TP1 to ground with jumper wire), following function operates.

- Source monitor
Release the line mute while recording.
- High speed playback
On playing back, while pressing HIGH SPEED (DUBBING) button, high speed playback operates.
- Record memory stop
Using DIRECTION MODE switch \rightleftarrows , returns to the recording start point and stops or plays.
- LED indication of slide switch
When making Deck B pause, LED indicates the positions of DIRECTION MODE switch and (AUTO CD SYNCRO) MODE switch.

Switch	Position	LED
DIRECTION MODE	\rightleftarrows RELAY	Deck A ◀ Deck A PLAY Deck A ▶
MODE	NORM FADE ERASE	Deck B ◀ Deck B PLAY Deck B ▶

- AGC gain check
When setting DIRECTION MODE switch to \rightleftarrows and recording, AGC gain becomes maximum.

• Circuit Boards Location



• Semiconductor Lead Layouts

DTC143TS
2SA1175-HFE
2SA1345
2SA1348
2SC3402



2SC2785-HFE



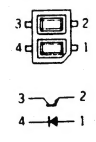
2SB1187-F
2SD1761E



2SB1014



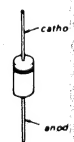
GP2S09-C
SPS-314B



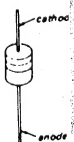
2SB1013
2SC945P
2SD1387



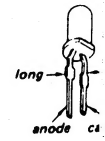
US1060
1SS132
10E2N



HZS6A11
UZL-6L
1SS120

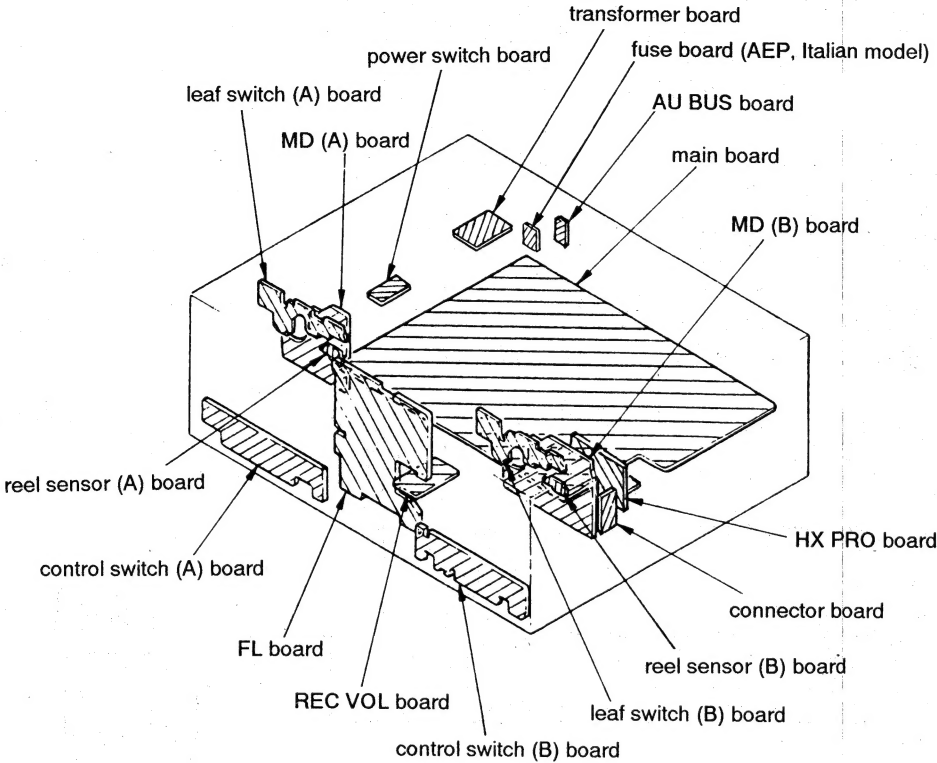


SEL2210
SEL2810

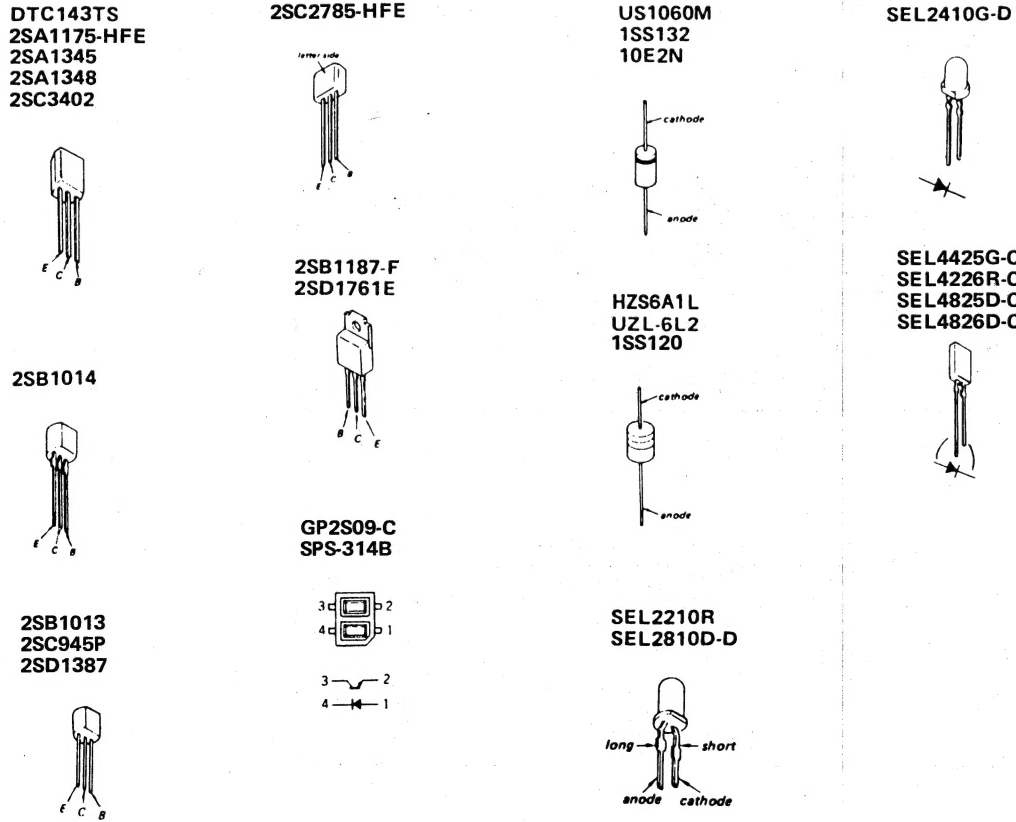


I/O	FUNCTION
O	Pass amp select output
O	REC/PB select output (L:record)
O	AMS/BS amp select output
O	AMS/BS amp deck A or deck B select (L:deck B)
O	AMS/BS amp deck A or deck B select (L:deck B)
O	Deck B record bias select
O	REC/PB switching relay output
O	Output to hold deck B solenoid
O	Output to kick deck B solenoid
O	Output to hold deck A solenoid
O	Output to kick deck A solenoid
O	Deck B capstan motor high speed/normal speed select(H: high speed dubbing or FF/REW)
O	Deck A capstan motor high speed/normal speed select(H: high speed dubbing or FF/REW)
O	Capstan motor ON/OFF output (H:STOP)
O	Deck B record mute signal output (H:mute)
O	Deck A is set to L at 70μsec during high speed dubbing.
O	LED output (L:light on)
O	LED output (L:light on)
O	LED output (L:light on)
O	LED output (L:light on)
I	Terminal of version setting (this set is H)

Circuit Boards Location



Semiconductor Lead Layouts



Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$ 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.
- Components for right channel have same values as for left channel. Reference numbers are coded from
- \triangle : internal component.
- $\text{---}\text{---}\text{---}$: fusible resistor.

Note: The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

- B+ : B + Line.
- B- : B - Line.
- --- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark : STOP
() : Normal speed dubbing
(()) : High speed dubbing
 \blacktriangleright : FWD \blacktriangleleft : REV \blacksquare : STOP
 $\blacktriangleright\blacktriangleright$: FF $\blacktriangleleft\blacktriangleleft$: REW \bullet : REC
- Voltages are taken with a VOM (input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
 Σ : PB (DECK A)
 \square : PB (DECK B)
 $\square\rangle$: REC (DECK B)

Note on Printed Wiring Boards:

- --- : parts extracted from the component side.
- --- : parts extracted from the conductor side.
- \square : indicates side identified with part number.

B low (connect TP1 to ground with jumper
tes.

e recording.

pressing HIGH SPEED (DUBBING) button,
tes.

DE switch \rightleftarrows , returns to the recording start

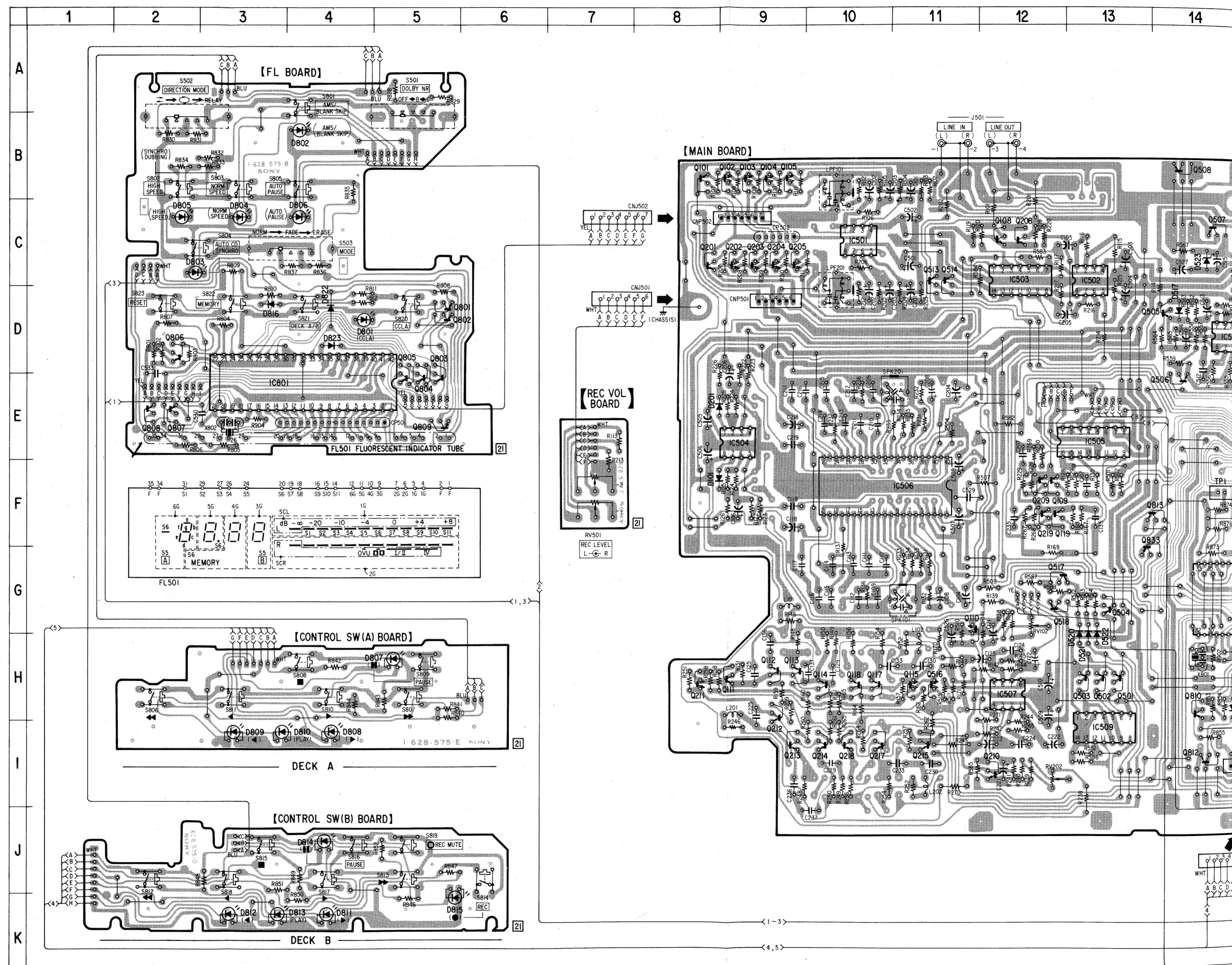
itch
pause, LED indicates the positions of
itch and (AUTO CD SYNCRO) MODE

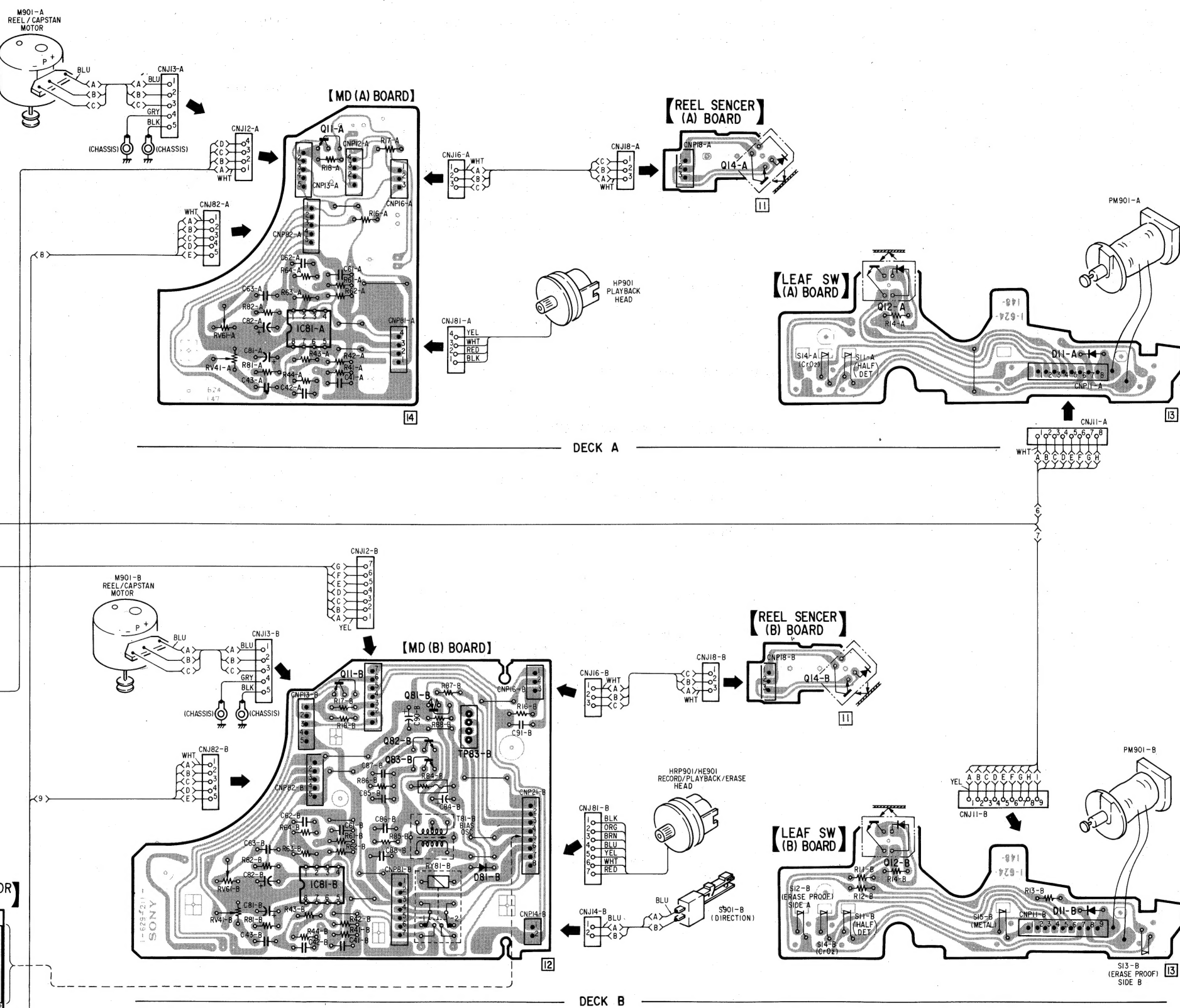
Position	LED
\rightleftarrows RELAY	Deck A \blacktriangleleft Deck A PLAY Deck A \blacktriangleright
NORM FADE ERASE	Deck B \blacktriangleleft Deck B PLAY Deck B \blacktriangleleft

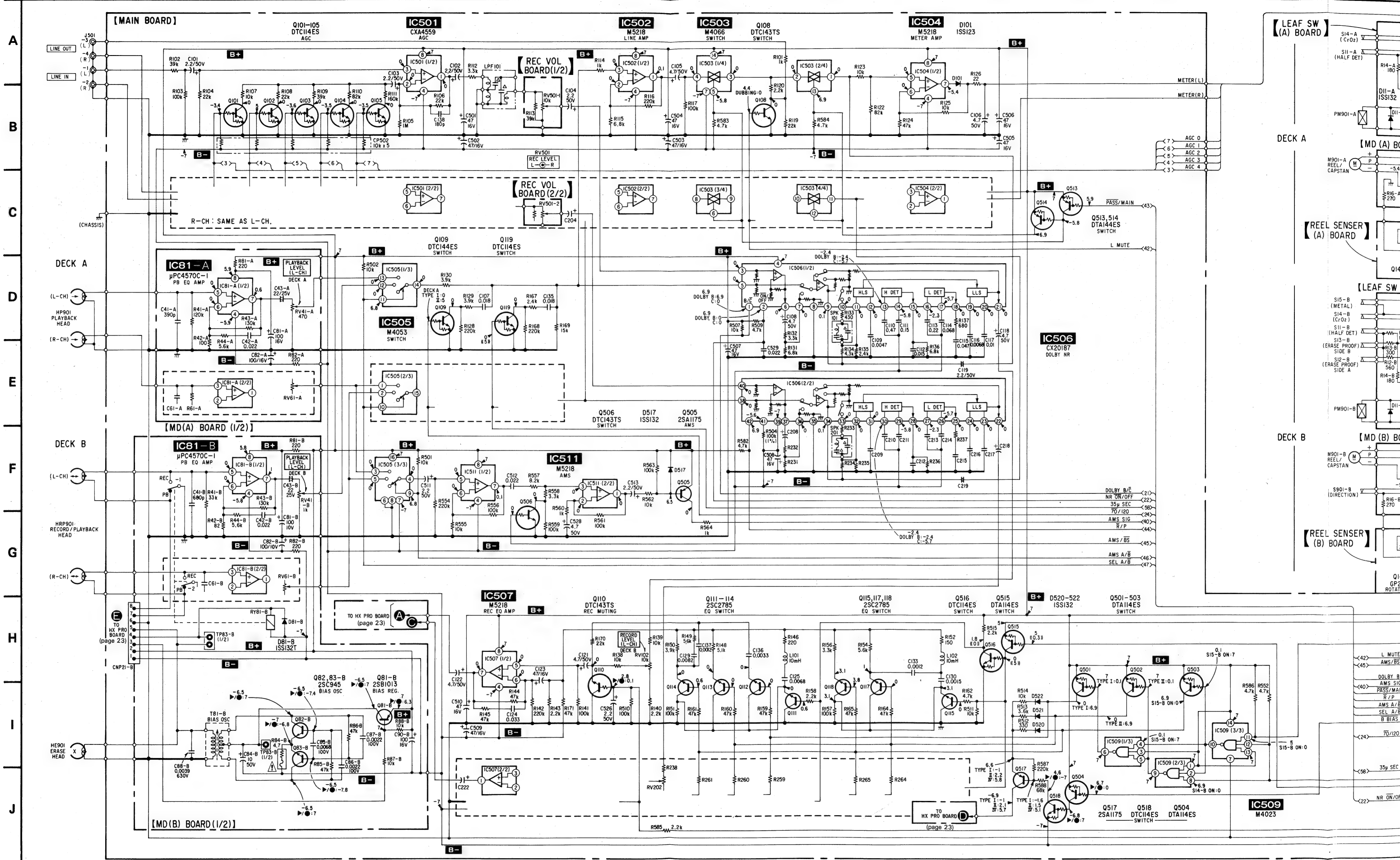
N MODE switch to \rightleftarrows and recording, AGC

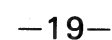
• Semiconductor Location

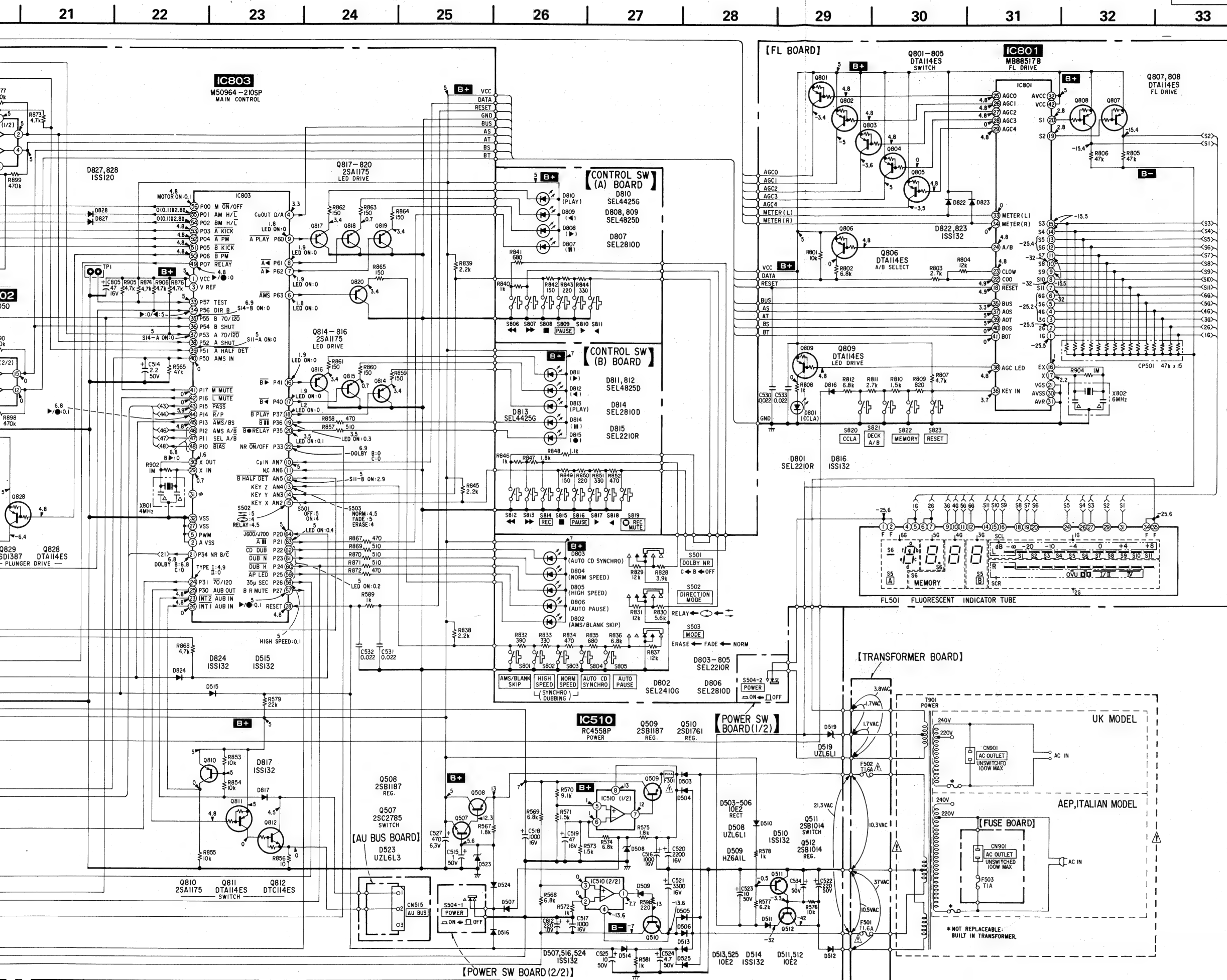
Ref. No.	Location	Ref. No.	Location
D11-A	D-33	Q101	B-8
D11-B	I-33	Q102	B-9
D81-B	I-28	Q103	B-9
D101	F-9	Q104	B-9
D201	E-9	Q105	B-9
D503	C-18	Q108	C-12
D504	C-18	Q109	F-12
D505	C-18	Q110	H-11
D506	C-18	Q111	H-9
D507	D-16	Q112	H-9
D508	D-16	Q113	H-9
D509	C-16	Q114	H-10
D510	D-17	Q115	H-11
D511	D-18	Q117	H-10
D512	D-18	Q118	H-10
D513	D-18	Q119	F-12
D514	D-17	Q201	C-8
D515	D-16	Q202	C-9
D516	D-16	Q203	C-9
D517	D-14	Q204	C-9
D519	D-18	Q205	C-9
D520	H-13	Q208	C-12
D521	H-13	Q209	F-12
D522	H-13	Q210	I-12
D523	C-14	Q211	H-8
D524	C-15	Q212	I-9
D525	D-18	Q213	I-9
D801	D-4	Q214	I-10
D802	B-4	Q215	I-11
D803	C-2	Q217	I-10
D804	C-3	Q218	I-10
D805	C-2	Q219	F-12
D806	C-4	Q501	H-13
D807	H-5	Q502	H-13
D808	I-4	Q503	H-13
D809	I-3	Q504	G-13
D810	I-3	Q505	D-14
D811	K-4	Q506	E-14
D812	K-3	Q507	C-14
D813	K-3	Q508	B-14
D814	J-4	Q509	B-15
D815	K-5	Q510	B-16
D816	D-3	Q511	D-17
D817	H-14	Q512	E-18
D818	E-15	Q513	C-11
D819	E-16	Q514	C-11
D820	E-16	Q515	F-16
D822	D-4	Q516	H-11
D823	D-4	Q517	G-12
D824	G-16	Q518	G-12
D825	I-17	Q801	D-5
D826	H-18	Q802	D-5
D827	G-17	Q803	E-5
D828	G-17	Q804	E-5
		Q805	E-5
		Q806	D-2
IC21	J-20	Q807	E-2
IC81-A	D-26	Q808	E-2
IC81-B	I-26	Q809	E-5
IC91	I-21	Q810	H-14
IC501	C-10	Q811	H-15
IC502	C-13	Q812	I-14
IC503	C-12	Q813	F-14
IC504	E-9	Q814	H-15
IC505	E-13	Q815	H-15
IC506	F-11	Q816	H-15
IC507	H-12	Q817	H-16
IC509	I-13	Q818	H-16
IC510	C-16	Q819	H-16
IC511	D-14	Q820	H-16
IC801	E-3	Q822	F-15
IC802	H-18	Q823	F-15
IC803	G-15	Q824	F-16
		Q825	F-18
Q11-A	B-26	Q826	F-17
Q11-B	G-26	Q827	F-17
Q12-A	D-31	Q828	F-16
Q12-B	I-31	Q829	F-17
Q14-A	B-30	Q830	F-17
Q14-B	G-31	Q831	G-18
Q21	J-20	Q832	G-18
Q81-B	G-27	Q833	G-14
Q82-B	H-27		
Q83-B	H-27		





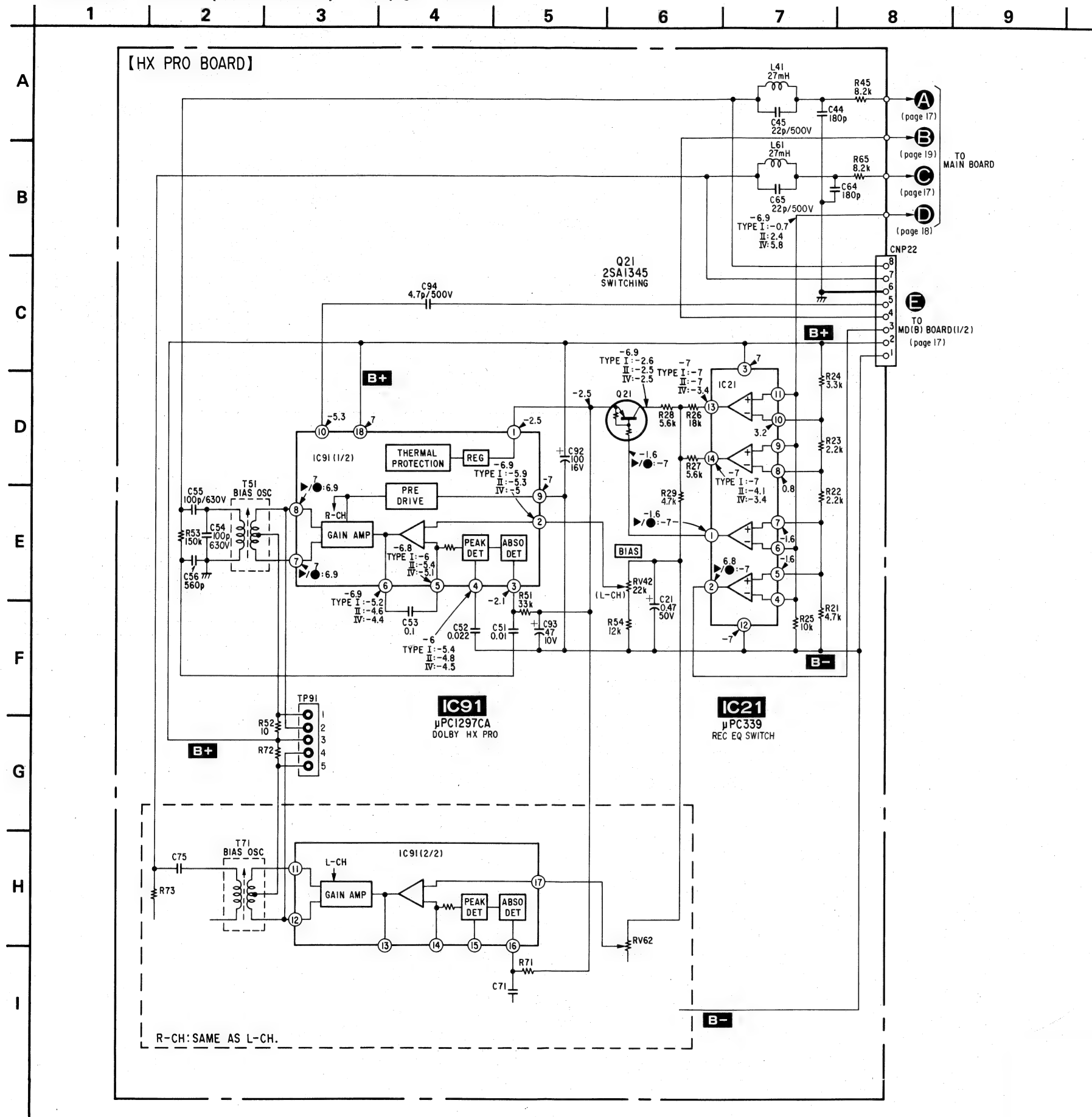






SECTION 5 EXPLODED VIEWS

4-4. SCHEMATIC DIAGRAM (HX PRO BOARD) - See page 11 for notes.



NOTE:

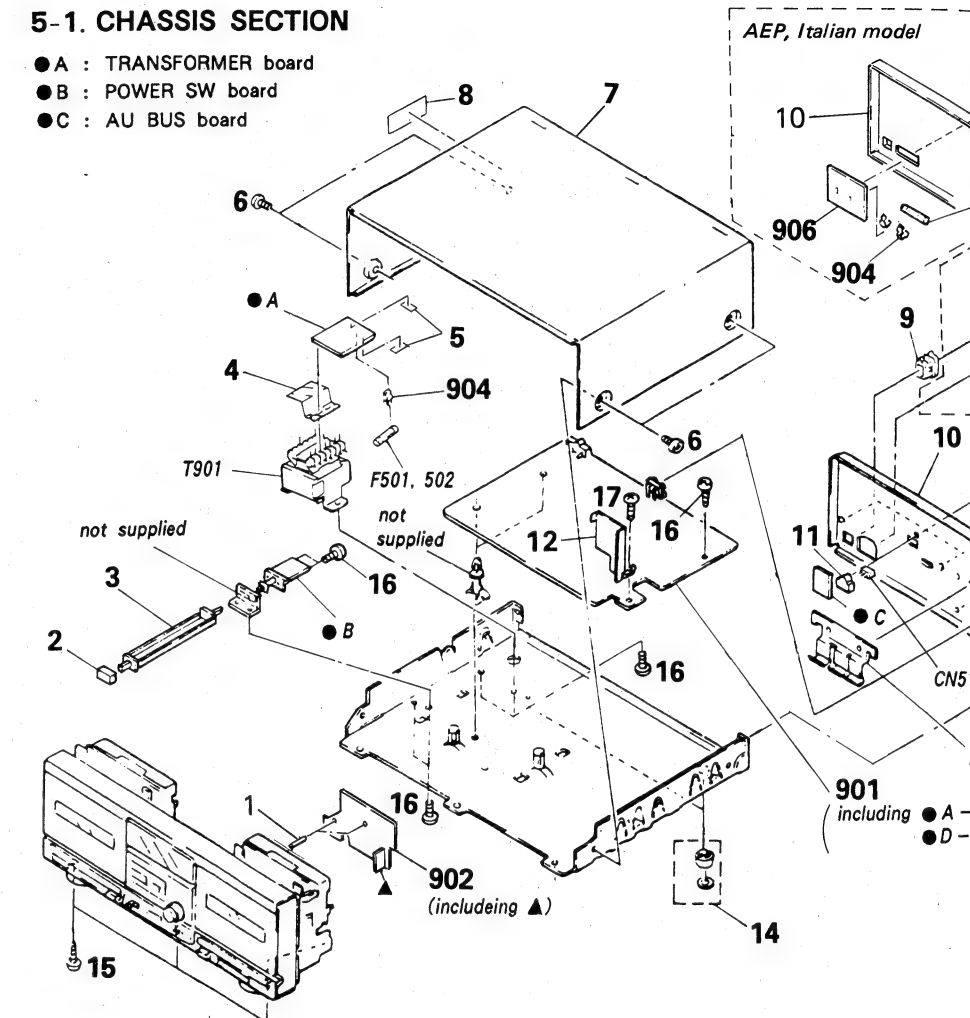
- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts Example:
(RED) ... KNOB, BALANCE (WHITE)

↑ Cabinet's Color ↑ Parts Color

5-1. CHASSIS SECTION

- A : TRANSFORMER board
- B : POWER SW board
- C : AU BUS board



Ref.No	Part No.	Description	Remark
1	*3-682-419-21	HOLDER, P.C.B	
2	4-922-903-01	BUTTON (POWER)	
3	*3-350-114-01	LEVER (POWER SW)	
4	*3-337-136-01	COVER, TRANSFORMER SAFETY	
5	*3-701-947-13	LABEL (T1.6A), FUSE	
6	3-704-366-01	SCREW (CASE) (M3X8)	
7	4-919-379-11	CASE	
8	3-703-079-21	(UK)... LABEL, CAUTION (BACK)	
9	*3-703-244-00	BUSHING (2104), CORD	
10	*3-350-131-41	(AEP, Italian)... PANEL, BACK	
11	3-350-131-51	(UK)... PANEL, BACK	
12	3-332-819-01	HOLDER CONNECTOR	
13	*3-350-123-01	PLATE (MDB), SHIELD	
14	*3-337-402-01	BAND, BINDING	
15	X-4917-254-1	FOOT ASSY	
16	7-682-547-09	SCREW +BVTT 3X6 (S)	
17	7-682-547-04	SCREW +BVTT 3X6 (S)	

Ref.No	Part No.	Description	Remark
17	7-685-646-79	SCREW +BVTT 3X6 (S)	
18	7-685-533-11	SCREW +BVTT 3X6 (S)	
19	7-621-849-00	SCREW +BVTT 3X6 (S)	
901	*A-2006-125-A	MO	
902	1-630-423-11	PC	
904	1-533-162-00	HO	
905	1-555-750-00	AE	
906	1-555-562-00	UH	
CN515	*1-565-562-11	CO	
CN901	1-526-751-00	UH	
F501	1-532-259-00	FU	
F502	1-532-259-00	FU	
F503	1-532-078-00	AE	
T901	1-449-460-11	TR	

SECTION 5
EXPLODED VIEWS

NOTE:

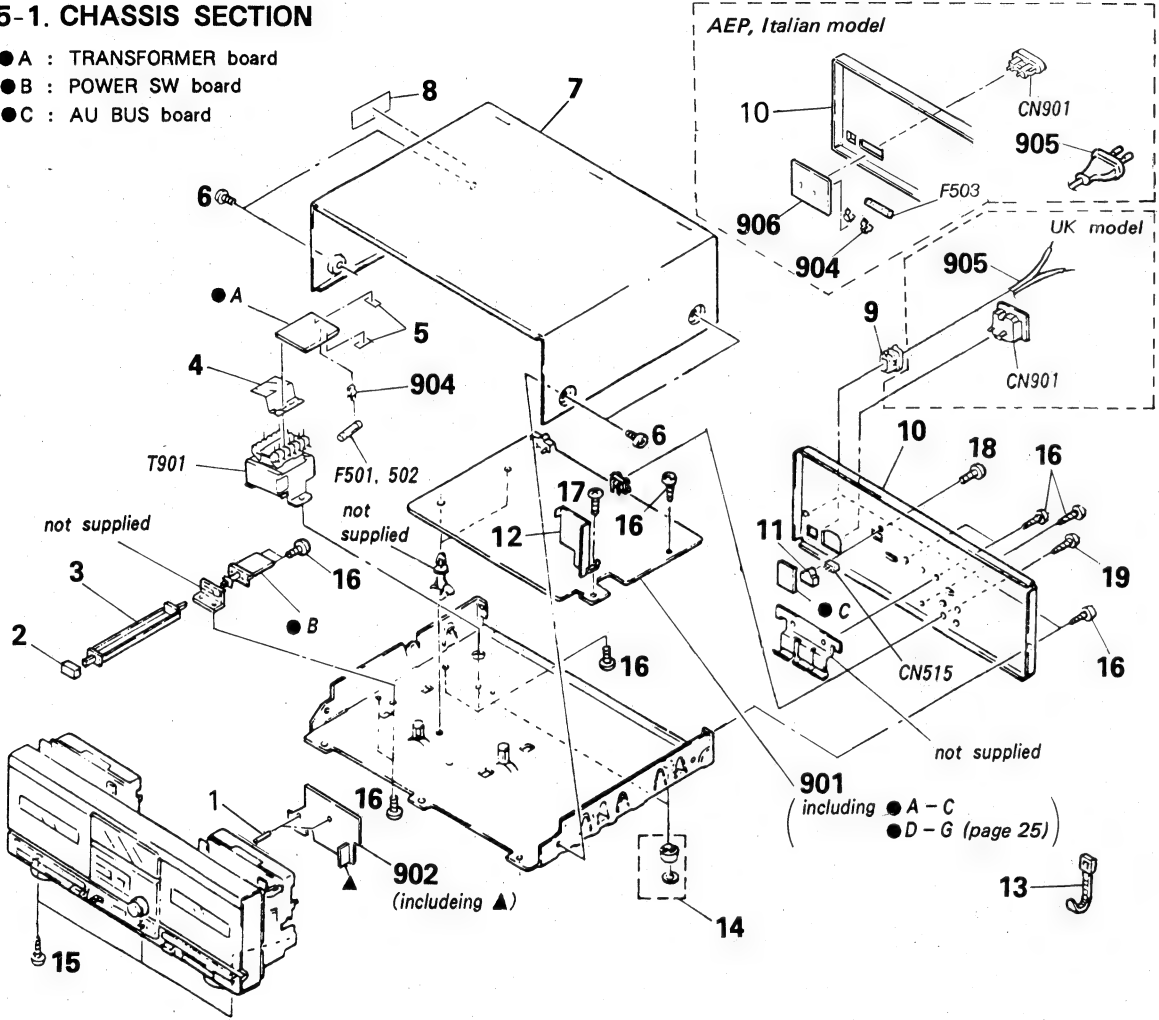
- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
Example:
(RED) ... KNOB, BALANCE (WHITE)
↑ Cabinet's Color ↑ Parts Color

The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.

5-1. CHASSIS SECTION

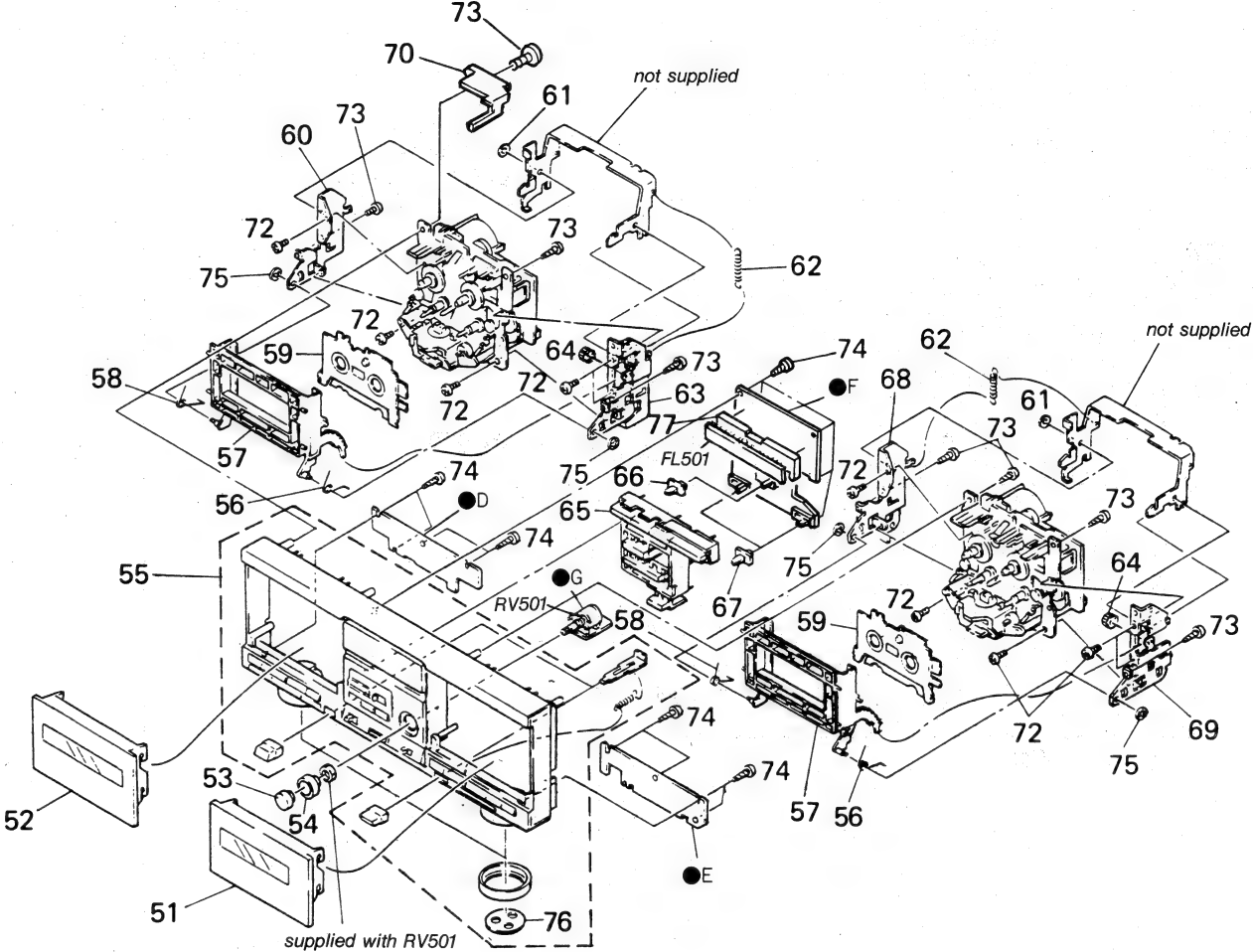
- A : TRANSFORMER board
- B : POWER SW board
- C : AU BUS board



Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
1	*3-682-419-21	HOLDER, P.C.B		17	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
2	4-922-903-01	BUTTON (POWER)		18	7-685-533-11	SCREW +BTP 2.6X6 TYPE2 N-S	
3	*3-350-114-01	LEVER (POWER SW)		19	7-621-849-00	SCREW, TAPPING	
4	*3-337-136-01	COVER, TRANSFORMER SAFETY		901	*A-2006-125-A	MOUNTED PCB, AUDIO	
5	*3-701-947-13	LABEL (T1.6A), FUSE		902	1-630-423-11	PC BOARD, HX PRO	
6	3-704-366-01	SCREW (CASE) (M3X8)		904	1-533-162-00	HOLDER, FUSE	
7	4-919-379-11	CASE		905	▲1-555-750-00	(AEP, Italian)...CORD, POWER	
8	3-703-079-21	(UK)...LABEL, CAUTION (BACK)			▲1-556-562-00	(UK)...CORD, POWER	
9	*3-703-244-00	BUSHING (2104), CORD		906	*1-626-652-11	(AEP, Italian)...PC BOARD, FUSE	
10	*3-350-131-41	(AEP, Italian)...PANEL, BACK		CN515	*1-565-562-11	CONNECTOR (BASE POST) 3P (AU BUS)	
	3-350-131-51	(UK)...PANEL, BACK		CN901	▲1-526-751-00	(UK)...OUTLET, AC	
11	3-332-819-01	HOLDER CONNECTOR			▲1-526-794-11	(AEP, Italian)...OUTLET, AC	
12	*3-350-123-01	PLATE (MDB), SHIELD		F501	▲1-532-259-00	FUSE, TIME-LAG (1.6A)	
13	*3-337-402-01	BAND, BINDING		F502	▲1-532-259-00	FUSE, TIME-LAG (1.6A)	
14	X-4917-254-1	FOOT ASSY		F503	▲1-532-078-00	(AEP, Italian)...FUSE, TIME-LAG (1A)	
15	7-682-547-09	SCREW +BVTT 3X6 (S)		T901	▲1-449-460-11	TRANSFORMER, POWER	
16	7-682-547-04	SCREW +BVTT 3X6 (S)					

5-2. FRONT PANEL SECTION

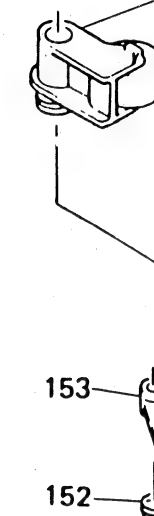
- D : CONTROL SW (A) board
- E : CONTROL SW (B) board
- F : FL board
- G : REC VOL board



Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
51	3-343-686-31	LID, CASSETTE (DECK B)		64	X-3332-464-1	GEAR (DAMPER) ASSY	
52	3-343-686-21	LID, CASSETTE (DECK A)		65	X-3343-632-1	BUTTON (C) ASSY	
53	3-343-633-01	KNOB (φ21) (REC LEVEL R)		66	4-922-518-11	KNOB (AUTO CD SYNCHRO; MODE)	
54	3-343-634-01	KNOB (φ23) (REC LEVEL L)		67	4-924-444-11	KNOB (DIRECTION MODE/DOLBY NR)	
55	X-3343-636-1	PANEL ASSY, FRONT		68	*X-3343-626-1	BRACKET (LB) ASSY	
56	3-343-688-01	SPRING (LOADING RIGHT)		69	*X-3343-627-1	BRACKET (RB) ASSY	
57	X-3343-628-1	HOLDER ASSY, CASSETTE		70	*3-350-117-01	REINFORCEMENT (FP)	
58	3-343-687-01	SPRING (LOADING LEFT)		72	7-621-770-87	SCREW +BVTT 2.6X5 (S)	
59	*3-340-123-01	RETAINER, CASSETTE		73	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
60	*X-3343-624-1	BRACKET (LA) ASSY		74	7-685-533-11	SCREW +BTP 2.6X6 TYPE2 N-S	
61	7-624-105-04	STOP RING 2.3, TYPE -E		75	7-624-190-31	STOP RING 4, TYPE-CS	
62	3-343-689-01	SPRING, TENSION		76	4-928-401-11	FELT	
63	*X-3343-625-1	BRACKET (RA) ASSY		77	3-350-116-02	HOLDER (FL)	
				FL501	1-519-493-11	INDICATOR TUBE, FLUORESCENT	
				RV501	1-238-300-11	RES, VAR, CARBON 10K/10K (REC LEVEL)	

5-3. MECH

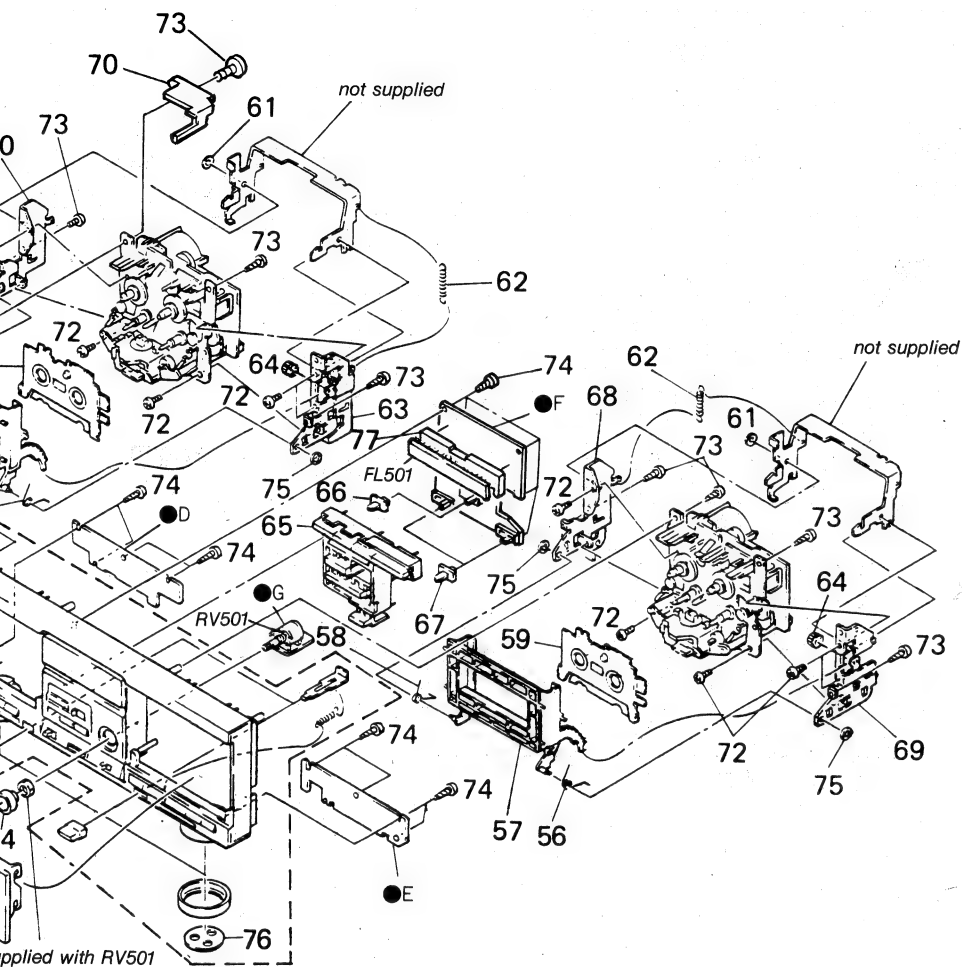
- TCM-17
- TCM-17



No.	Part No.	
151	*X-3343-4	
152	3-343-47	
153	*3-343-47	
154	7-685-10	
155	X-3343-4	
156	7-621-77	
157	3-343-40	
158	X-3343-4	
159	3-343-43	
160	X-3343-4	

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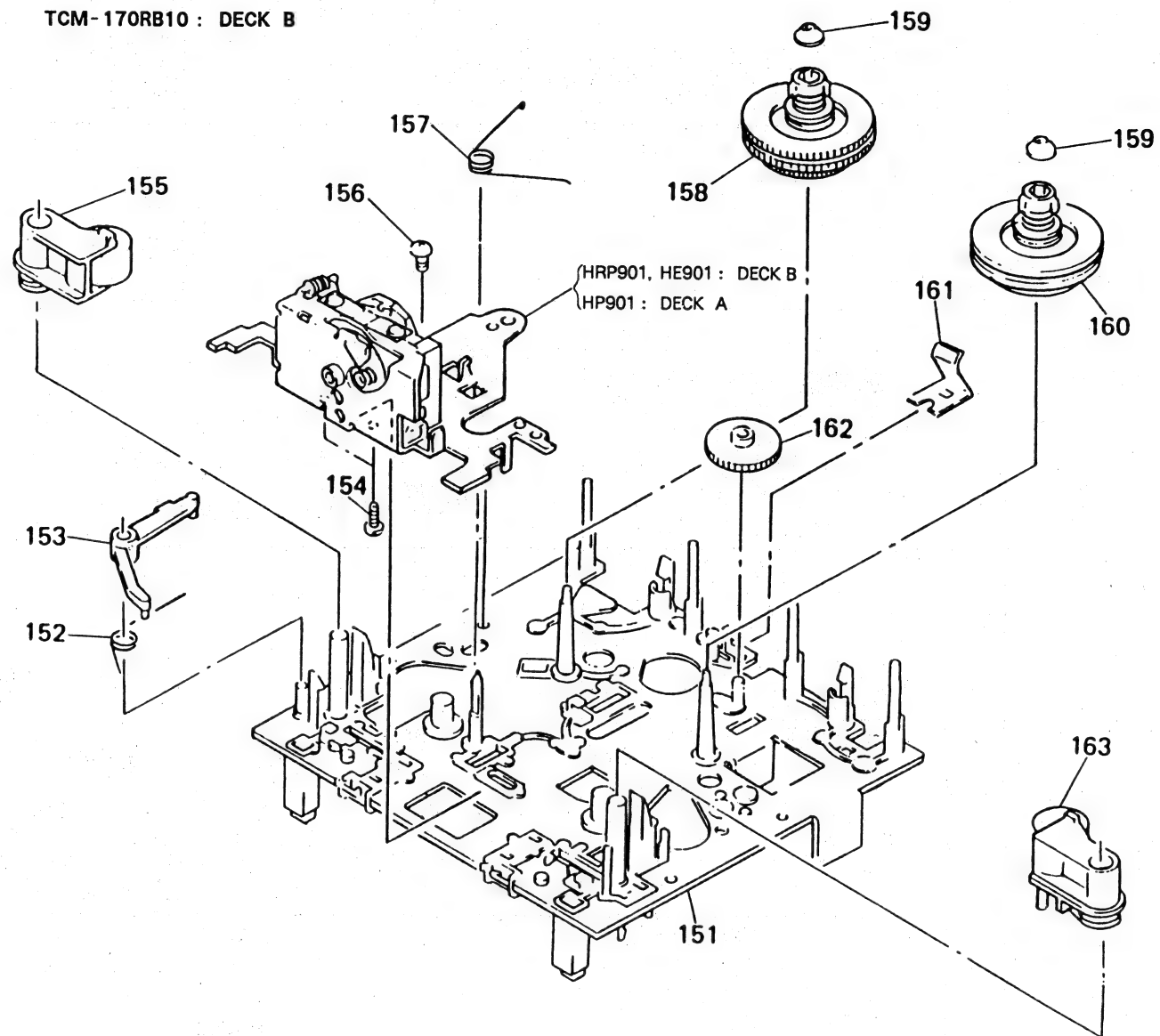


Remark	Ref.No	Part No.	Description	Remark
	64	X-3332-464-1	GEAR (DAMPER) ASSY	
	65	X-3343-632-1	BUTTON (C) ASSY	
	66	4-922-518-11	KNOB (AUTO CD SYNCHRO; MODE)	
	67	4-924-444-11	KNOB (DIRECTION MODE/DOLBY NR)	
	68	*X-3343-626-1	BRACKET (LB) ASSY	
	69	*X-3343-627-1	BRACKET (RB) ASSY	
	70	*3-350-117-01	REINFORCEMENT (FP)	
	72	7-621-770-87	SCREW +BVTT 2.6X5 (S)	
	73	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
	74	7-685-533-11	SCREW +BTP 2.6X6 TYPE2 N-S	
	75	7-624-190-31	STOP RING 4, TYPE-CS	
	76	4-928-401-11	FELT	
	77	3-350-116-02	HOLDER (FL)	
	FL501	1-519-493-11	INDICATOR TUBE, FLUORESCENT	
	RV501	1-238-300-11	RES, VAR, CARBON 10K/10K (REC LEVEL)	

5-3. MECHANISM SECTION 1

TCM-170RA4 : DECK A

TCM-170RB10 : DECK B



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
151	*X-3343-439-1	CHASSIS ASSY, MECHANICAL		161	3-343-420-01	SPRING, LEAF	
152	3-343-477-01	SPRING, TORSION (EJECT SAFTY)		162	3-343-411-01	GEAR (FF GEAR)	
153	*3-343-476-01	LEVER (EJECT SAFETY LEVER)		163	X-3343-402-1	LEVER (PINCH LEVER FWD) ASSY	
154	7-685-102-19	SCREW +P 2X4 NON-SLIT TYPE 2					
155	X-3343-403-1	LEVER (PINCH LEVER REV) ASSY		HP901	A-2108-129-A	(DECK A)...CHASSIS ASSY, HEAD	
				HE901	A-2108-124-A	(DECK B)...CHASSIS ASSY, HEAD	
156	7-621-773-86	SCREW +BVTT 2.6X4 (S)					
157	3-343-401-01	SPRING, TORSION					
158	X-3343-415-1	TABEL (REV) ASSY, REEL					
159	3-343-439-01	CAP (REEL TABLE)					
160	X-3343-401-1	TABEL ASSY, REEL					

SECTION 6

ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:MF: μ F, PF: μ MF.**RESISTORS**

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORSIn each case, U: μ , for example:UA....: μ A...., UPA....: μ PA....,UPC....: μ PC, UPD....: μ PD....

The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.

Ref.No	Part No.	Description					Ref.No	Part No.	Description				
901	*A-2006-125-A	MOUNTED PCB, AUDIO					C101	1-124-925-11	ELECT	2.2MF	20%	50V	
902	*1-630-423-11	PC BOARD, HX PRO					C102	1-124-925-11	ELECT	2.2MF	20%	50V	
904	1-533-162-00	HOLDER, FUSE					C103	1-124-925-11	ELECT	2.2MF	20%	50V	
905	1-555-750-00	(AEP, Italian)...CORD, POWER					C104	1-124-925-11	ELECT	2.2MF	20%	50V	
	1-556-562-00	(UK)...CORD, POWER					C105	1-124-927-11	ELECT	4.7MF	20%	50V	
906	*1-626-652-11	(AEP, Italian)...PC BOARD, FUSE					C106	1-124-927-11	ELECT	4.7MF	20%	50V	
921	*1-624-147-11	(DECK A)...PC BOARD, MD (A)					C107	1-136-156-00	FILM	0.018MF	5%	50V	
	*1-629-211-11	(DECK B)...PC BOARD, MD (B)					C108	1-124-927-11	ELECT	4.7MF	20%	50V	
922	*1-624-148-11	PC BOARD, LEAF SW					C109	1-130-479-00	MYLAR	0.0047MF	5%	50V	
923	*1-628-656-11	PC BOARD, REEL SENSOR					C110	1-136-173-00	FILM	0.47MF	5%	50V	
CAPACITOR													
C21	1-124-902-00	ELECT	0.47MF	20%	50V		C111	1-136-167-00	FILM	0.15MF	5%	50V	
C41A	1-162-289-31	CERAMIC	390PF	10%	50V		C112	1-136-155-00	FILM	0.015MF	5%	50V	
C41B	1-130-469-00	MYLAR	680PF	5%	50V		C113	1-136-169-00	FILM	0.22MF	5%	50V	
C42A	1-136-157-00	FILM	0.022MF	5%	50V		C114	1-136-163-00	FILM	0.068MF	5%	50V	
C42B	1-136-157-00	FILM	0.022MF	5%	50V		C115	1-136-161-00	FILM	0.047MF	5%	50V	
C43A	1-124-282-00	ELECT	22MF	20%	25V		C116	1-130-481-00	MYLAR	0.0068MF	5%	50V	
C43B	1-124-282-00	ELECT	22MF	20%	25V		C117	1-136-153-00	FILM	0.01MF	5%	50V	
C44	1-162-285-31	CERAMIC	180PF	10%	50V		C118	1-124-927-11	ELECT	4.7MF	20%	50V	
C45	1-107-210-00	MICA	22PF	5%	500V		C119	1-124-767-00	ELECT	2.2MF	20%	50V	
C51	1-136-153-00	FILM	0.01MF	5%	50V		C121	1-124-927-11	ELECT	4.7MF	20%	50V	
C52	1-136-157-00	FILM	0.022MF	5%	50V		C122	1-124-927-11	ELECT	4.7MF	20%	50V	
C53	1-136-165-00	FILM	0.1MF	5%	50V		C123	1-124-477-11	ELECT	47MF	20%	16V	
C54	1-136-433-11	FILM	100PF	5%	630V		C124	1-136-159-00	FILM	0.033MF	5%	50V	
C55	1-136-433-11	FILM	100PF	5%	630V		C125	1-130-481-00	MYLAR	0.0068MF	5%	50V	
C56	1-130-468-00	MYLAR	560PF	5%	50V		C129	1-130-482-00	MYLAR	0.0082MF	5%	50V	
C61A	1-162-289-31	CERAMIC	390PF	10%	50V		C130	1-130-473-00	MYLAR	0.0015MF	5%	50V	
C61B	1-130-469-00	MYLAR	680PF	5%	50V		C133	1-130-472-00	MYLAR	0.0012MF	5%	50V	
C62A	1-136-157-00	FILM	0.022MF	5%	50V		C135	1-136-156-00	FILM	0.018MF	5%	50V	
C62B	1-136-157-00	FILM	0.022MF	5%	50V		C136	1-130-477-00	MYLAR	0.0033MF	5%	50V	
C63A	1-124-282-00	ELECT	22MF	20%	25V		C137	1-130-472-00	MYLAR	0.0012MF	5%	50V	
C63B	1-124-282-00	ELECT	22MF	20%	25V		C138	1-162-285-31	CERAMIC	180PF	10%	50V	
C64	1-162-285-31	CERAMIC	180PF	10%	50V		C201	1-124-925-11	ELECT	2.2MF	20%	50V	
C65	1-107-210-00	MICA	22PF	5%	500V		C202	1-124-925-11	ELECT	2.2MF	20%	50V	
C71	1-136-153-00	FILM	0.01MF	5%	50V		C203	1-124-925-11	ELECT	2.2MF	20%	50V	
C72	1-136-157-00	FILM	0.022MF	5%	50V		C204	1-124-925-11	ELECT	2.2MF	20%	50V	
C73	1-136-165-00	FILM	0.1MF	5%	50V		C205	1-124-927-11	ELECT	4.7MF	20%	50V	
C74	1-136-433-11	FILM	100PF	5%	630V		C206	1-124-927-11	ELECT	4.7MF	20%	50V	
C75	1-136-433-11	FILM	100PF	5%	630V		C207	1-136-156-00	FILM	0.018MF	5%	50V	
C76	1-130-468-00	MYLAR	560PF	5%	50V		C208	1-124-927-11	ELECT	4.7MF	20%	50V	
C81A	1-126-101-11	ELECT	100MF	20%	16V		C209	1-130-479-00	MYLAR	0.0047MF	5%	50V	
C81B	1-124-443-00	ELECT	100MF	20%	10V		C210	1-136-173-00	FILM	0.47MF	5%	50V	
C82A	1-126-101-11	ELECT	100MF	20%	16V		C211	1-136-167-00	FILM	0.15MF	5%	50V	
C82B	1-124-443-00	ELECT	100MF	20%	10V		C212	1-136-155-00	FILM	0.015MF	5%	50V	
C84B	1-123-875-11	ELECT	10MF	20%	50V		C213	1-136-169-00	FILM	0.22MF	5%	50V	
C85B	1-130-856-00	FILM	0.0068MF	5%	100V		C214	1-136-163-00	FILM	0.068MF	5%	50V	
C86B	1-136-230-00	FILM	0.0022MF	5%	100V		C215	1-136-161-00	FILM	0.047MF	5%	50V	
C87B	1-136-230-00	FILM	0.0022MF	5%	100V		C216	1-130-481-00	MYLAR	0.0068MF	5%	50V	
C88B	1-136-558-11	FILM	0.0039MF	5%	630V		C217	1-136-153-00	FILM	0.01MF	5%	50V	
C90B	1-126-101-11	ELECT	100MF	20%	16V		C218	1-124-927-11	ELECT	4.7MF	20%	50V	
C91B	1-161-375-00	CERAMIC	0.0022MF	30%	16V		C219	1-124-767-00	ELECT	2.2MF	20%	50V	
C92	1-126-101-11	ELECT	100MF	20%	16V		C221	1-124-927-11	ELECT	4.7MF	20%	50V	
C93	1-124-446-11	ELECT	47MF	20%	10V		C222	1-124-927-11	ELECT	4.7MF	20%	50V	
C94	1-107-046-00	MICA	4.7PF	0.5PF	500V		C223	1-124-477-11	ELECT	47MF	20%	16V	
							C224	1-136-159-00	FILM	0.033MF	5%	50V	
							C225	1-130-481-00	MYLAR	0.0068MF	5%	50V	

Ref.No	Part No.	Description			
C229	1-130-482-00	MYLAR	0.0082MF	5%	50V
C230	1-130-473-00	MYLAR	0.0015MF	5%	50V
C233	1-130-472-00	MYLAR	0.0012MF	5%	50V
C235	1-136-156-00	FILM	0.018MF	5%	50V
C236	1-130-477-00	MYLAR	0.0033MF	5%	50V
C237	1-130-472-00	MYLAR	0.0012MF	5%	50V
C238	1-162-285-31	CERAMIC	180PF	10%	50V
C501	1-124-477-11	ELECT	47MF	20%	16V
C502	1-124-477-11	ELECT	47MF	20%	16V
C503	1-124-477-11	ELECT	47MF	20%	16V
C504	1-124-477-11	ELECT	47MF	20%	16V
C505	1-124-477-11	ELECT	47MF	20%	16V
C506	1-124-477-11	ELECT	47MF	20%	16V
C507	1-124-477-11	ELECT	47MF	20%	16V
C508	1-124-477-11	ELECT	47MF	20%	16V
C509	1-124-477-11	ELECT	47MF	20%	16V
C510	1-124-477-11	ELECT	47MF	20%	16V
C511	1-124-925-11	ELECT	2.2MF	20%	50V
C512	1-136-157-00	FILM	0.022MF	5%	50V
C513	1-124-925-11	ELECT	2.2MF	20%	50V
C514	1-124-925-11	ELECT	2.2MF	20%	50V
C515	1-124-499-11	ELECT	1MF	20%	50V
C516	1-124-360-00	ELECT	1000MF	20%	16V
C517	1-124-360-00	ELECT	1000MF	20%	16V
C518	1-124-360-00	ELECT	1000MF	20%	16V
C519	1-124-477-11	ELECT	47MF	20%	16V
C520	1-124-556-11	ELECT	2200MF	20%	16V
C521	1-124-887-00	ELECT	3300MF	20%	16V
C522	1-124-911-11	ELECT	220MF	20%	50V
C523	1-123-875-11	ELECT	10MF	20%	50V
C524	1-124-927-11	ELECT	4.7MF	20%	50V
C525	1-123-875-11	ELECT	10MF	20%	50V
C526	1-124-925-11	ELECT	2.2MF	20%	50V
C527	1-124-472-11	ELECT	470MF	20%	6.3V
C528	1-124-927-11	ELECT	4.7MF	20%	50V
C529	1-161-494-00	CERAMIC	0.022MF		25V
C530	1-161-494-00	CERAMIC	0.022MF		25V
C531	1-161-494-00	CERAMIC	0.022MF		25V
C532	1-161-494-00	CERAMIC	0.022MF		25V
C533	1-161-494-00	CERAMIC	0.022MF		25V
C534	1-124-499-11	ELECT	1MF	20%	50V
C801	1-126-176-11	ELECT	220MF	20%	10V
C802	1-124-925-11	ELECT	2.2MF	20%	50V
C803	1-124-927-11	ELECT	4.7MF	20%	50V
C805	1-124-477-11	ELECT	47MF	20%	16V
C812	1-126-176-11	ELECT	220MF	20%	10V
CN501	*1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P			
CN502	*1-564-341-11	PIN, CONNECTOR 7P			
CN503	*1-506-503-11	PIN, CONNECTOR 9P			
CN504	*1-564-338-00	PIN, CONNECTOR 4P			
CN505	*1-564-342-61	PIN, CONNECTOR 8P			
CN506	*1-564-341-71	PIN, CONNECTOR 7P			
CN507	*1-564-342-11	PIN, CONNECTOR 8P			
CN512	*1-564-338-00	PIN, CONNECTOR 4P			
CN515	*1-565-562-11	CONNECTOR (BASE POST) 3P (AU BUS)			
CN516	*1-564-496-11	PIN, CONNECTOR 3P			
CN901	△1-526-751-00	(UK)....OUTLET, AC			
	△1-526-794-11	(AEP)....OUTLET, AC			
CNP11A	*1-564-501-11	PIN, CONNECTOR 8P			
CNP11B	*1-506-615-11	PIN, CONNECTOR 9P			
CNP12A	*1-564-338-00	PIN, CONNECTOR 4P			
CNP12B	*1-564-341-11	PIN, CONNECTOR 7P			
CNP13A	*1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P			
CNP13B	*1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P			

Ref.No	Part No.	Description
CNP14B	*1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P
CNP16A	*1-564-337-00	PIN, CONNECTOR 3P
CNP16B	*1-564-337-00	PIN, CONNECTOR 3P
CNP18A	*1-564-496-11	PIN, CONNECTOR 3P
CNP18B	*1-564-496-11	PIN, CONNECTOR 3P
CNP21B	*1-565-344-11	PIN, CONNECTOR (PC BOARD) 8P
CNP22	*1-565-347-11	SOCKET, CONNECTOR (PC BOARD) 8P
CNP81A	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P
CNP81B	*1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P
CNP82A	*1-564-339-00	PIN, CONNECTOR 5P
CNP82B	*1-564-339-61	PIN, CONNECTOR 5P
CNP83	*1-564-338-00	PIN, CONNECTOR 4P
CP501	1-233-167-11	COMPOSITION CIRCUIT BLOCK
CP502	1-233-166-11	COMPOSITION CIRCUIT BLOCK
D11A	8-719-107-94	DIODE 1SS132
D11B	8-719-107-94	DIODE 1SS132
D81B	8-719-107-94	DIODE 1SS132
D101	8-719-912-20	DIODE 1SS120
D201	8-719-912-20	DIODE 1SS120
D503	8-719-200-77	DIODE 10E2N
D504	8-719-200-77	DIODE 10E2N
D505	8-719-200-77	DIODE 10E2N
D506	8-719-200-77	DIODE 10E2N
D507	8-719-912-20	DIODE 1SS120
D508	8-719-933-33	DIODE HZS6A1L
D509	8-719-933-33	DIODE HZS6A1L
D510	8-719-912-20	DIODE 1SS120
D511	8-719-200-77	DIODE 10E2N
D512	8-719-200-77	DIODE 10E2N
D513	8-719-200-77	DIODE 10E2N
D514	8-719-912-20	DIODE 1SS120
D515	8-719-912-20	DIODE 1SS120
D516	8-719-912-20	DIODE 1SS120
D517	8-719-912-20	DIODE 1SS120
D519	8-719-933-33	DIODE HZS6A1L
D520	8-719-912-20	DIODE 1SS120
D521	8-719-912-20	DIODE 1SS120
D522	8-719-912-20	DIODE 1SS120
D523	8-719-000-51	DIODE UZL-6L2
D524	8-719-912-20	DIODE 1SS120
D525	8-719-200-77	DIODE 10E2N
D801	8-719-300-71	DIODE SEL2210R
D802	8-719-304-85	DIODE SEL2410G-D
D803	8-719-300-71	DIODE SEL2210R
D804	8-719-300-71	DIODE SEL2210R
D805	8-719-300-71	DIODE SEL2210R
D806	8-719-311-61	DIODE SEL2810D-D
D807	8-719-312-29	DIODE SEL4826D-C
D808	8-719-311-70	DIODE SEL4825D-C
D809	8-719-311-70	DIODE SEL4825D-C
D810	8-719-304-96	DIODE SEL4425G-C
D811	8-719-311-70	DIODE SEL4825D-C
D812	8-719-311-70	DIODE SEL4825D-C
D813	8-719-304-96	DIODE SEL4425G-C
D814	8-719-312-29	DIODE SEL4826D-C
D815	8-719-312-30	DIODE SEL4226R-C
D816	8-719-912-20	DIODE 1SS120
D817	8-719-912-20	DIODE 1SS120
D818	8-719-200-77	DIODE 10E2N
D819	8-719-200-77	DIODE 10E2N
D820	8-719-200-77	DIODE 10E2N
D822	8-719-912-20	DIODE 1SS120
D823	8-719-912-20	DIODE 1SS120
D824	8-719-912-20	DIODE 1SS120

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Ref.No	Part No.	Description
D825	8-719-912-20	DIODE 1SS120
D826	8-719-912-20	DIODE 1SS120
D827	8-719-912-20	DIODE 1SS120
D828	8-719-912-20	DIODE 1SS120
F301	△ 1-532-675-00	LINK, IC
F501	△ 1-532-259-00	FUSE, TIME-LAG (1.6A)
F502	△ 1-532-259-00	FUSE, TIME-LAG (1.6A)
F503	△ 1-532-078-00	(AEP, Italian)... FUSE, TIME-LAG (1A)
FL501	1-519-493-11	INDICATOR TUBE, FLUORESCENT
HE901	A-2108-124-A	(DECK B)...CHASSIS ASSY, HEAD
HP901	A-2108-129-A	(DECK A)...CHASSIS ASSY, HEAD
HRP901	A-2108-124-A	(DECK B)...CHASSIS ASSY, HEAD
IC21	8-759-133-90	IC UPC339C
IC81A	8-759-111-44	IC UPC4570C-1
IC81B	8-759-111-44	IC UPC4570C-1
IC91	8-759-106-56	IC UPC1297CA
IC501	8-759-601-02	IC M5218P
IC502	8-759-601-02	IC M5218P
IC503	8-759-601-43	IC M4066BP
IC504	8-759-601-02	IC M5218P
IC505	8-759-601-41	IC M4053BP
IC506	8-752-018-70	IC CX20187
IC507	8-759-601-02	IC M5218P
IC509	8-759-601-23	IC M4023BP
IC510	8-759-945-58	IC RC4558P
IC511	8-759-601-02	IC M5218P
IC801	8-759-979-32	IC MB88517B-659N
IC802	8-759-601-38	IC M4050BP
IC803	8-759-633-22	IC M50964-210SP
J501	1-565-258-11	JACK, PIN 4P (LINE IN/OUT)
L41	1-410-780-11	INDUCTOR 27MMH
L61	1-410-780-11	INDUCTOR 27MMH
L101	1-410-775-21	INDUCTOR 10MMH
L102	1-410-775-21	INDUCTOR 10MMH
L201	1-410-775-21	INDUCTOR 10MMH
L202	1-410-775-21	INDUCTOR 10MMH
LPF101	1-236-147-11	FILTER, LOW PASS
LPF201	1-236-147-11	FILTER, LOW PASS
M901-A	X-3343-408-1	(DECK A)...MOTOR ASSY
M901-B	X-3343-408-1	(DECK B)...MOTOR ASSY
PM901-A	1-454-456-11	(DECK A)...SOLENOID, PLUNGER
PM901-B	1-454-456-11	(DECK B)...SOLENOID, PLUNGER
Q11A	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q11B	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q12A	8-719-939-23	GP2S09-C
Q12B	8-719-939-23	GP2S09-C
Q14A	8-719-939-23	GP2S09-C
Q14B	8-719-939-23	GP2S09-C
Q21	8-729-806-20	TRANSISTOR 2SA1345
Q81B	8-729-116-57	TRANSISTOR 2SB1013
Q82B	8-729-194-57	TRANSISTOR 2SC945P
Q83B	8-729-194-57	TRANSISTOR 2SC945P
Q101	8-729-806-28	TRANSISTOR 2SC3402
Q102	8-729-806-28	TRANSISTOR 2SC3402
Q103	8-729-806-28	TRANSISTOR 2SC3402
Q104	8-729-806-28	TRANSISTOR 2SC3402
Q105	8-729-806-28	TRANSISTOR 2SC3402
Q108	8-729-900-74	TRANSISTOR DTC143TS
Q109	8-729-806-28	TRANSISTOR 2SC3402



Ref.No	Part No.	Description
Q110	8-729-900-74	TRANSISTOR DTC143TS
Q111	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q112	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q113	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q114	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q115	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q117	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q118	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q119	8-729-806-28	TRANSISTOR 2SC3402
Q201	8-729-806-28	TRANSISTOR 2SC3402
Q202	8-729-806-28	TRANSISTOR 2SC3402
Q203	8-729-806-28	TRANSISTOR 2SC3402
Q204	8-729-806-28	TRANSISTOR 2SC3402
Q205	8-729-806-28	TRANSISTOR 2SC3402
Q208	8-729-900-74	TRANSISTOR DTC143TS
Q209	8-729-806-28	TRANSISTOR 2SC3402
Q210	8-729-900-74	TRANSISTOR DTC143TS
Q211	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q212	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q213	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q214	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q215	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q217	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q218	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q219	8-729-806-28	TRANSISTOR 2SC3402
Q501	8-729-806-10	TRANSISTOR 2SA1348
Q502	8-729-806-10	TRANSISTOR 2SA1348
Q503	8-729-806-10	TRANSISTOR 2SA1348
Q504	8-729-806-10	TRANSISTOR 2SA1348
Q505	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q506	8-729-900-74	TRANSISTOR DTC143TS
Q507	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q508	8-729-920-91	TRANSISTOR 2SB1187-F
Q509	8-729-920-91	TRANSISTOR 2SB1187-F
Q510	8-729-808-76	TRANSISTOR 2SD1761-E
Q511	8-729-802-22	TRANSISTOR 2SB1014
Q512	8-729-802-22	TRANSISTOR 2SB1014
Q513	8-729-806-20	TRANSISTOR 2SA1345
Q514	8-729-806-20	TRANSISTOR 2SA1345
Q515	8-729-806-10	TRANSISTOR 2SA1348
Q516	8-729-806-28	TRANSISTOR 2SC3402
Q517	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q518	8-729-806-28	TRANSISTOR 2SC3402
Q801	8-729-806-10	TRANSISTOR 2SA1348
Q802	8-729-806-10	TRANSISTOR 2SA1348
Q803	8-729-806-10	TRANSISTOR 2SA1348
Q804	8-729-806-10	TRANSISTOR 2SA1348
Q805	8-729-806-10	TRANSISTOR 2SA1348
Q806	8-729-806-10	TRANSISTOR 2SA1348
Q807	8-729-806-10	TRANSISTOR 2SA1348
Q808	8-729-806-10	TRANSISTOR 2SA1348
Q809	8-729-806-10	TRANSISTOR 2SA1348
Q810	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q811	8-729-806-10	TRANSISTOR 2SA1348
Q812	8-729-806-28	TRANSISTOR 2SC3402
Q813	8-729-806-10	TRANSISTOR 2SA1348
Q814	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q815	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q816	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q817	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q818	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q819	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q820	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q822	8-729-806-10	TRANSISTOR 2SA1348
Q823	8-729-806-10	TRANSISTOR 2SA1348

Note: The components identified by mark **△** or dotted line with mark **△** are critical for safety. Replace only with part number specified.

Ref.No	Part No.	Description			
Q824	8-729-806-10	TRANSISTOR 2SA1348			
Q825	8-729-802-22	TRANSISTOR 2SB1014			
Q826	8-729-806-10	TRANSISTOR 2SA1348			
Q827	8-729-901-93	TRANSISTOR 2SD1387			
Q828	8-729-806-10	TRANSISTOR 2SA1348			
Q829	8-729-901-93	TRANSISTOR 2SD1387			
Q830	8-729-802-22	TRANSISTOR 2SB1014			
Q831	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q832	8-729-802-22	TRANSISTOR 2SB1014			
Q833	8-729-806-10	TRANSISTOR 2SA1348			
RESISTOR					
R11B	1-247-834-11	CARBON	1.3K	5%	1/4W
R12B	1-249-414-11	CARBON	560	5%	1/4W
R13B	1-247-818-11	CARBON	300	5%	1/4W
R14A	1-249-408-11	CARBON	180	5%	1/4W
R14B	1-249-408-11	CARBON	180	5%	1/4W
R16A	1-249-410-11	CARBON	270	5%	1/4W
R16B	1-249-410-11	CARBON	270	5%	1/4W
R17A	1-249-437-11	CARBON	47K	5%	1/4W
R17B	1-249-437-11	CARBON	47K	5%	1/4W
R18A	1-249-437-11	CARBON	47K	5%	1/4W
R18B	1-249-437-11	CARBON	47K	5%	1/4W
R21	1-249-425-11	CARBON	4.7K	5%	1/4W
R22	1-249-421-11	CARBON	2.2K	5%	1/4W
R23	1-249-421-11	CARBON	2.2K	5%	1/4W
R24	1-249-423-11	CARBON	3.3K	5%	1/4W
R25	1-249-429-11	CARBON	10K	5%	1/4W
R26	1-249-432-11	CARBON	18K	5%	1/4W
R27	1-249-426-11	CARBON	5.6K	5%	1/4W
R28	1-249-426-11	CARBON	5.6K	5%	1/4W
R29	1-249-425-11	CARBON	4.7K	5%	1/4W
R41A	1-247-881-00	CARBON	120K	5%	1/4W
R41B	1-249-435-11	CARBON	33K	5%	1/4W
R42A	1-249-405-11	CARBON	100	5%	1/4W
R42B	1-249-404-00	CARBON	82	5%	1/4W
R43A	1-247-882-11	CARBON	130K	5%	1/4W
R43B	1-247-882-11	CARBON	130K	5%	1/4W
R44A	1-249-426-11	CARBON	5.6K	5%	1/4W
R44B	1-249-426-11	CARBON	5.6K	5%	1/4W
R45	1-249-428-11	CARBON	8.2K	5%	1/4W
R51	1-249-435-11	CARBON	33K	5%	1/4W
R52	1-249-393-11	CARBON	10	5%	1/4W
R53	1-247-883-00	CARBON	150K	5%	1/4W
R54	1-249-430-11	CARBON	12K	5%	1/4W
R61A	1-247-881-00	CARBON	120K	5%	1/4W
R61B	1-249-435-11	CARBON	33K	5%	1/4W
R62A	1-249-405-11	CARBON	100	5%	1/4W
R62B	1-249-404-00	CARBON	82	5%	1/4W
R63A	1-247-882-11	CARBON	130K	5%	1/4W
R63B	1-247-882-11	CARBON	130K	5%	1/4W
R64A	1-249-426-11	CARBON	5.6K	5%	1/4W
R64B	1-249-426-11	CARBON	5.6K	5%	1/4W
R65	1-249-428-11	CARBON	8.2K	5%	1/4W
R71	1-249-435-11	CARBON	33K	5%	1/4W
R72	1-249-393-11	CARBON	10	5%	1/4W
R73	1-247-883-00	CARBON	150K	5%	1/4W
R74	1-249-430-11	CARBON	12K	5%	1/4W
R81A	1-249-409-11	CARBON	220	5%	1/4W
R81B	1-249-409-11	CARBON	220	5%	1/4W
R82A	1-249-409-11	CARBON	220	5%	1/4W
R82B	1-249-409-11	CARBON	220	5%	1/4W
R84B	1-212-849-00	FUSIBLE	4.7	5%	1/4W
R85B	1-249-437-11	CARBON	47K	5%	1/4W
R86B	1-249-437-11	CARBON	47K	5%	1/4W
R87B	1-249-429-11	CARBON	10K	5%	1/4W

Ref.No	Part No.	Description			
R88B	1-249-429-11	CARBON	10K	5%	1/4W
R101	1-249-417-11	CARBON	1K	5%	1/4W
R102	1-249-436-11	CARBON	39K	5%	1/4W
R103	1-249-441-11	CARBON	100K	5%	1/4W
R104	1-249-433-11	CARBON	22K	5%	1/4W
R105	1-247-903-00	CARBON	1M	5%	1/4W
R106	1-249-433-11	CARBON	22K	5%	1/4W
R107	1-249-429-11	CARBON	10K	5%	1/4W
R108	1-249-433-11	CARBON	22K	5%	1/4W
R109	1-249-436-11	CARBON	39K	5%	1/4W
R110	1-249-440-11	CARBON	82K	5%	1/4W
R111	1-247-884-11	CARBON	160K	5%	1/4W
R112	1-249-423-11	CARBON	3.3K	5%	1/4W
R113	1-249-436-11	CARBON	39K	5%	1/4W
R114	1-249-417-11	CARBON	1K	5%	1/4W
R115	1-249-427-11	CARBON	6.8K	5%	1/4W
R116	1-247-887-00	CARBON	220K	5%	1/4W
R117	1-249-441-11	CARBON	100K	5%	1/4W
R119	1-249-433-11	CARBON	22K	5%	1/4W
R120	1-249-421-11	CARBON	2.2K	5%	1/4W
R122	1-249-440-11	CARBON	82K	5%	1/4W
R123	1-249-429-11	CARBON	10K	5%	1/4W
R124	1-249-437-11	CARBON	47K	5%	1/4W
R125	1-249-429-11	CARBON	10K	5%	1/4W
R126	1-249-397-11	CARBON	22	5%	1/4W
R128	1-247-887-00	CARBON	220K	5%	1/4W
R129	1-249-424-11	CARBON	3.9K	5%	1/4W
R130	1-249-424-11	CARBON	3.9K	5%	1/4W
R131	1-249-427-11	CARBON	6.8K	5%	1/4W
R132	1-249-423-11	CARBON	3.3K	5%	1/4W
R133	1-247-822-11	CARBON	430	5%	1/4W
R134	1-247-846-11	CARBON	4.3K	5%	1/4W
R135	1-247-840-00	CARBON	2.4K	5%	1/4W
R136	1-249-427-11	CARBON	6.8K	5%	1/4W
R137	1-249-415-11	CARBON	680	5%	1/4W
R138	1-249-429-11	CARBON	10K	5%	1/4W
R139	1-249-429-11	CARBON	10K	5%	1/4W
R140	1-249-421-11	CARBON	2.2K	5%	1/4W
R141	1-249-441-11	CARBON	100K	5%	1/4W
R142	1-247-887-00	CARBON	220K	5%	1/4W
R143	1-249-421-11	CARBON	2.2K	5%	1/4W
R144	1-249-437-11	CARBON	47K	5%	1/4W
R145	1-249-437-11	CARBON	47K	5%	1/4W
R146	1-249-409-11	CARBON	220	5%	1/4W
R148	1-247-848-11	CARBON	5.1K	5%	1/4W
R149	1-249-426-11	CARBON	5.6K	5%	1/4W
R150	1-249-424-11	CARBON	3.9K	5%	1/4W
R151	1-249-441-11	CARBON	100K	5%	1/4W
R152	1-249-407-11	CARBON	150	5%	1/4W
R154	1-249-426-11	CARBON	5.6K	5%	1/4W
R156	1-249-423-11	CARBON	3.3K	5%	1/4W
R157	1-249-441-11	CARBON	100K	5%	1/4W
R158	1-249-421-11	CARBON	2.2K	5%	1/4W
R159	1-249-437-11	CARBON	47K	5%	1/4W
R160	1-249-437-11	CARBON	47K	5%	1/4W
R161	1-249-437-11	CARBON	47K	5%	1/4W
R162	1-249-425-11	CARBON	4.7K	5%	1/4W
R164	1-249-437-11	CARBON	47K	5%	1/4W
R165	1-249-437-11	CARBON	47K	5%	1/4W
R167	1-247-840-00	CARBON	2.4K	5%	1/4W
R168	1-247-887-00	CARBON	220K	5%	1/4W
R169	1-249-431-11	CARBON	15K	5%	1/4W
R170	1-249-433-11	CARBON	22K	5%	1/4W
R171	1-249-437-11	CARBON	47K	5%	1/4W
R201	1-249-417-11	CARBON	1K	5%	1/4W

F

Note: The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Ref.No Part No. Description



R202	1-249-436-11	CARBON	39K	5%	1/4W
R203	1-249-441-11	CARBON	100K	5%	1/4W
R204	1-249-433-11	CARBON	22K	5%	1/4W
R205	1-247-903-00	CARBON	1M	5%	1/4W
R206	1-249-433-11	CARBON	22K	5%	1/4W
R207	1-249-429-11	CARBON	10K	5%	1/4W
R208	1-249-433-11	CARBON	22K	5%	1/4W
R209	1-249-436-11	CARBON	39K	5%	1/4W
R210	1-249-440-11	CARBON	82K	5%	1/4W
R211	1-247-884-11	CARBON	160K	5%	1/4W
R212	1-249-423-11	CARBON	3.3K	5%	1/4W
R213	1-249-436-11	CARBON	39K	5%	1/4W
R214	1-249-417-11	CARBON	1K	5%	1/4W
R215	1-249-427-11	CARBON	6.8K	5%	1/4W
R216	1-247-887-00	CARBON	220K	5%	1/4W
R217	1-249-441-11	CARBON	100K	5%	1/4W
R219	1-249-433-11	CARBON	22K	5%	1/4W
R220	1-249-421-11	CARBON	2.2K	5%	1/4W
R222	1-249-440-11	CARBON	82K	5%	1/4W
R223	1-249-429-11	CARBON	10K	5%	1/4W
R224	1-249-437-11	CARBON	47K	5%	1/4W
R225	1-249-429-11	CARBON	10K	5%	1/4W
R226	1-249-397-11	CARBON	22	5%	1/4W
R228	1-247-887-00	CARBON	220K	5%	1/4W
R229	1-249-424-11	CARBON	3.9K	5%	1/4W
R230	1-249-424-11	CARBON	3.9K	5%	1/4W
R231	1-249-427-11	CARBON	6.8K	5%	1/4W
R232	1-249-423-11	CARBON	3.3K	5%	1/4W
R233	1-247-822-11	CARBON	430	5%	1/4W
R234	1-247-846-11	CARBON	4.3K	5%	1/4W
R235	1-247-840-00	CARBON	2.4K	5%	1/4W
R236	1-249-427-11	CARBON	6.8K	5%	1/4W
R237	1-249-415-11	CARBON	680	5%	1/4W
R238	1-249-429-11	CARBON	10K	5%	1/4W
R239	1-249-429-11	CARBON	10K	5%	1/4W
R240	1-249-421-11	CARBON	2.2K	5%	1/4W
R241	1-249-441-11	CARBON	100K	5%	1/4W
R242	1-247-887-00	CARBON	220K	5%	1/4W
R243	1-249-421-11	CARBON	2.2K	5%	1/4W
R244	1-249-437-11	CARBON	47K	5%	1/4W
R245	1-249-437-11	CARBON	47K	5%	1/4W
R246	1-249-409-11	CARBON	220	5%	1/4W
R248	1-247-848-11	CARBON	5.1K	5%	1/4W
R249	1-249-426-11	CARBON	5.6K	5%	1/4W
R250	1-249-424-11	CARBON	3.9K	5%	1/4W
R251	1-249-441-11	CARBON	100K	5%	1/4W
R252	1-249-407-11	CARBON	150	5%	1/4W
R254	1-249-426-11	CARBON	5.6K	5%	1/4W
R256	1-249-423-11	CARBON	3.3K	5%	1/4W
R257	1-249-441-11	CARBON	100K	5%	1/4W
R258	1-249-421-11	CARBON	2.2K	5%	1/4W
R259	1-249-437-11	CARBON	47K	5%	1/4W
R260	1-249-437-11	CARBON	47K	5%	1/4W
R261	1-249-437-11	CARBON	47K	5%	1/4W
R262	1-249-425-11	CARBON	4.7K	5%	1/4W
R264	1-249-437-11	CARBON	47K	5%	1/4W
R265	1-249-437-11	CARBON	47K	5%	1/4W
R267	1-247-840-00	CARBON	2.4K	5%	1/4W
R268	1-247-887-00	CARBON	220K	5%	1/4W
R269	1-249-431-11	CARBON	15K	5%	1/4W
R270	1-249-433-11	CARBON	22K	5%	1/4W
R271	1-249-437-11	CARBON	47K	5%	1/4W
R501	1-249-429-11	CARBON	10K	5%	1/4W
R502	1-249-429-11	CARBON	10K	5%	1/4W
R504	1-215-469-00	METAL	100K	1%	1/6W

Ref.No Part No. Description

R507	1-249-429-11	CARBON	10K	5%	1/4W
R509	1-249-425-11	CARBON	4.7K	5%	1/4W
R510	1-249-441-11	CARBON	100K	5%	1/4W
R511	1-249-429-11	CARBON	10K	5%	1/4W
R512	1-249-411-11	CARBON	330	5%	1/4W
R513	1-247-844-11	CARBON	3.6K	5%	1/4W
R514	1-249-429-11	CARBON	10K	5%	1/4W
R515	1-249-421-11	CARBON	2.2K	5%	1/4W
R552	1-249-425-11	CARBON	4.7K	5%	1/4W
R554	1-247-887-00	CARBON	220K	5%	1/4W
R555	1-249-429-11	CARBON	10K	5%	1/4W
R556	1-249-441-11	CARBON	100K	5%	1/4W
R557	1-249-428-11	CARBON	8.2K	5%	1/4W
R558	1-249-423-11	CARBON	3.3K	5%	1/4W
R559	1-249-441-11	CARBON	100K	5%	1/4W
R560	1-249-417-11	CARBON	1K	5%	1/4W
R561	1-249-441-11	CARBON	100K	5%	1/4W
R562	1-249-429-11	CARBON	10K	5%	1/4W
R563	1-249-441-11	CARBON	100K	5%	1/4W
R564	1-249-417-11	CARBON	1K	5%	1/4W
R565	1-249-437-11	CARBON	47K	5%	1/4W
R567	1-249-420-11	CARBON	1.8K	5%	1/4W
R568	1-249-427-11	CARBON	6.8K	5%	1/4W
R569	1-249-427-11	CARBON	6.8K	5%	1/4W
R570	1-247-854-11	CARBON	9.1K	5%	1/4W
R571	1-249-419-11	CARBON	1.5K	5%	1/4W
R572	1-249-417-11	CARBON	1K	5%	1/4W
R573	1-249-419-11	CARBON	1.5K	5%	1/4W
R574	1-249-427-11	CARBON	6.8K	5%	1/4W
R575	1-249-420-11	CARBON	1.8K	5%	1/4W
R576	1-249-429-11	CARBON	10K	5%	1/4W
R577	1-247-850-11	CARBON	6.2K	5%	1/4W
R578	1-249-417-11	CARBON	1K	5%	1/4W
R579	1-249-433-11	CARBON	22K	5%	1/4W
R581	1-249-417-11	CARBON	1K	5%	1/4W
R582	1-249-425-11	CARBON	4.7K	5%	1/4W
R583	1-249-425-11	CARBON	4.7K	5%	1/4W
R584	1-249-425-11	CARBON	4.7K	5%	1/4W
R585	1-249-421-11	CARBON	2.2K	5%	1/4W
R586	1-249-425-11	CARBON	4.7K	5%	1/4W
R587	1-247-887-00	CARBON	220K	5%	1/4W
R588	1-249-439-11	CARBON	68K	5%	1/4W
R589	1-249-417-11	CARBON	1K	5%	1/4W
R591	1-249-409-11	CARBON	220	5%	1/4W
R801	1-249-429-11	CARBON	10K	5%	1/4W
R802	1-249-427-11	CARBON	6.8K	5%	1/4W
R803	1-249-422-11	CARBON	2.7K	5%	1/4W
R804	1-249-430-11	CARBON	12K	5%	1/4W
R805	1-249-437-11	CARBON	47K	5%	1/4W
R806	1-249-437-11	CARBON	47K	5%	1/4W
R807	1-249-425-11	CARBON	4.7K	5%	1/4W
R808	1-249-417-11	CARBON	1K	5%	1/4W
R809	1-249-416-11	CARBON	820	5%	1/4W
R810	1-249-419-11	CARBON	1.5K	5%	1/4W
R811	1-249-422-11	CARBON	2.7K	5%	1/4W
R812	1-249-427-11	CARBON	6.8K	5%	1/4W
R828	1-249-424-11	CARBON	3.9K	5%	1/4W
R829	1-249-430-11	CARBON	12K	5%	1/4W
R830	1-249-426-11	CARBON	5.6K	5%	1/4W
R831	1-249-430-11	CARBON	12K	5%	1/4W
R832	1-249-412-11	CARBON	390	5%	1/4W
R833	1-249-411-11	CARBON	330	5%	1/4W
R834	1-249-413-11	CARBON	470	5%	1/4W
R835	1-249-415-11	CARBON	680	5%	1/4W
R836	1-249-427-11	CARBON	6.8K	5%	1/4W

Ref.No	Part No.	Description			
R837	1-249-430-11	CARBON	12K	5%	1/4W
R838	1-249-421-11	CARBON	2.2K	5%	1/4W
R839	1-249-421-11	CARBON	2.2K	5%	1/4W
R840	1-249-417-11	CARBON	1K	5%	1/4W
R841	1-249-415-11	CARBON	680	5%	1/4W
R842	1-249-407-11	CARBON	150	5%	1/4W
R843	1-249-409-11	CARBON	220	5%	1/4W
R844	1-249-411-11	CARBON	330	5%	1/4W
R845	1-249-421-11	CARBON	2.2K	5%	1/4W
R846	1-249-417-11	CARBON	1K	5%	1/4W
R847	1-249-420-11	CARBON	1.8K	5%	1/4W
R848	1-247-832-11	CARBON	1.1K	5%	1/4W
R849	1-249-407-11	CARBON	150	5%	1/4W
R850	1-249-409-11	CARBON	220	5%	1/4W
R851	1-249-411-11	CARBON	330	5%	1/4W
R852	1-249-413-11	CARBON	470	5%	1/4W
R853	1-249-429-11	CARBON	10K	5%	1/4W
R854	1-249-429-11	CARBON	10K	5%	1/4W
R855	1-249-429-11	CARBON	10K	5%	1/4W
R856	1-249-393-11	CARBON	10	5%	1/4W
R857	1-249-442-11	CARBON	510	5%	1/4W
R858	1-249-413-11	CARBON	470	5%	1/4W
R859	1-249-407-11	CARBON	150	5%	1/4W
R860	1-249-407-11	CARBON	150	5%	1/4W
R861	1-249-407-11	CARBON	150	5%	1/4W
R862	1-249-407-11	CARBON	150	5%	1/4W
R863	1-249-407-11	CARBON	150	5%	1/4W
R864	1-249-407-11	CARBON	150	5%	1/4W
R865	1-249-407-11	CARBON	150	5%	1/4W
R866	1-249-417-11	CARBON	1K	5%	1/4W
R867	1-249-413-11	CARBON	470	5%	1/4W
R868	1-249-425-11	CARBON	4.7K	5%	1/4W
R869	1-249-442-11	CARBON	510	5%	1/4W
R870	1-249-442-11	CARBON	510	5%	1/4W
R871	1-249-442-11	CARBON	510	5%	1/4W
R872	1-249-413-11	CARBON	470	5%	1/4W
R873	1-249-425-11	CARBON	4.7K	5%	1/4W
R874	1-249-425-11	CARBON	4.7K	5%	1/4W
R875	1-249-429-11	CARBON	10K	5%	1/4W
R876	1-249-425-11	CARBON	4.7K	5%	1/4W
R877	1-247-895-00	CARBON	470K	5%	1/4W
R878	1-249-436-11	CARBON	39K	5%	1/4W
R879	1-249-388-11	CARBON	3.9	5%	1/4W
R880	1-249-421-11	CARBON	2.2K	5%	1/4W
R881	1-249-433-11	CARBON	22K	5%	1/4W
R882	1-249-417-11	CARBON	1K	5%	1/4W
R883	1-249-417-11	CARBON	1K	5%	1/4W
R884	1-249-433-11	CARBON	22K	5%	1/4W
R885	1-249-421-11	CARBON	2.2K	5%	1/4W
R886	1-249-388-11	CARBON	3.9	5%	1/4W
R887	1-249-433-11	CARBON	22K	5%	1/4W
R888	1-249-417-11	CARBON	1K	5%	1/4W
R889	1-249-425-11	CARBON	4.7K	5%	1/4W
R890	1-247-895-00	CARBON	470K	5%	1/4W
R891	1-249-436-11	CARBON	39K	5%	1/4W
R896	1-249-436-11	CARBON	39K	5%	1/4W
R897	1-249-433-11	CARBON	22K	5%	1/4W
R898	1-247-895-00	CARBON	470K	5%	1/4W
R899	1-247-895-00	CARBON	470K	5%	1/4W
R900	1-249-436-11	CARBON	39K	5%	1/4W
R901	1-249-433-11	CARBON	22K	5%	1/4W
R902	1-247-903-00	CARBON	1M	5%	1/4W
R903	1-249-425-11	CARBON	4.7K	5%	1/4W
R904	1-247-903-00	CARBON	1M	5%	1/4W
R905	1-249-425-11	CARBON	4.7K	5%	1/4W

Ref.No	Part No.	Description			
R906	1-249-425-11	CARBON	4.7K	5%	1/4W
RV41A	1-228-989-00	RES, ADJ, CARBON 470			
RV41B	1-228-990-00	RES, ADJ, CARBON 1K			
RV42	1-230-497-11	RES, ADJ, CARBON 22K			
RV61A	1-228-989-00	RES, ADJ, CARBON 470			
RV61B	1-228-990-00	RES, ADJ, CARBON 1K			
RV62	1-230-497-11	RES, ADJ, CARBON 22K			
RV102	1-228-994-00	RES, ADJ, CARBON 10K			
RV202	1-228-994-00	RES, ADJ, CARBON 10K			
RV501	1-238-300-11	RES, VAR, CARBON 10K/10K (REC LEVEL)			
RY81B	1-515-614-11	RELAY			
S11A	1-571-281-21	SWITCH, LEAF (HALF DET)			
S11B	1-571-281-21	SWITCH, LEAF (HALF DET)			
S12B	1-571-281-21	SWITCH, LEAF (ERASE PROOF : SIDE A)			
S13B	1-571-281-21	SWITCH, LEAF (ERASE PROOF : SIDE B)			
S14A	1-571-281-21	SWITCH, LEAF (CrO2)			
S14B	1-571-281-21	SWITCH, LEAF (CrO2)			
S15B	1-571-281-21	SWITCH, LEAF (METAL)			
S501	1-571-520-21	SWITCH, SLIDE (DOLBY NR)			
S502	1-571-520-21	SWITCH, SLIDE (DIRECTION MODE)			
S503	1-571-520-21	SWITCH, SLIDE (MODE)			
S504	1-570-103-21	SWITCH, PUSH (1 KEY) (POWER)			
S801	1-554-303-21	SWITCH, KEY BOARD (AMS/BLANK SKIP)			
S802	1-554-303-21	SWITCH, KEY BOARD (HIGH SPEED)			
S803	1-554-303-21	SWITCH, KEY BOARD (NORM SPEED)			
S804	1-554-303-21	SWITCH, KEY BOARD (AUTO CD SYNCHRO)			
S805	1-554-303-21	SWITCH, KEY BOARD (AUTO PAUSE)			
S806	1-554-303-21	SWITCH, KEY BOARD (◀ (DECK A))			
S807	1-554-303-21	SWITCH, KEY BOARD (▶ (DECK A))			
S808	1-554-303-21	SWITCH, KEY BOARD (■ (DECK A))			
S809	1-554-303-21	SWITCH, KEY BOARD (PAUSE (DECK A))			
S810	1-554-303-21	SWITCH, KEY BOARD (▶ (DECK A))			
S811	1-554-303-21	SWITCH, KEY BOARD (◀ (DECK A))			
S812	1-554-303-21	SWITCH, KEY BOARD (◀ (DECK B))			
S813	1-554-303-21	SWITCH, KEY BOARD (▶ (DECK B))			
S814	1-554-303-21	SWITCH, KEY BOARD (REC (DECK B))			
S815	1-554-303-21	SWITCH, KEY BOARD (■ (DECK B))			
S816	1-554-303-21	SWITCH, KEY BOARD (PAUSE (DECK B))			
S817	1-554-303-21	SWITCH, KEY BOARD (▶ (DECK B))			
S818	1-554-303-21	SWITCH, KEY BOARD (◀ REC MUTE (DECK B))			
S819	1-554-303-21	SWITCH, KEY BOARD (○ REC MUTE (DECK B))			
S820	1-554-303-21	SWITCH, KEY BOARD (CCLA)			
S821	1-554-303-21	SWITCH, KEY BOARD (DECK A/B)			
S822	1-554-303-21	SWITCH, KEY BOARD (MEMORY)			
S823	1-554-303-21	SWITCH, KEY BOARD (RESET)			
S901-B	1-571-028-11	(DECK B)...SWITCH, LEAF (REC SW)			
SPK101	1-235-186-00	ENCAPSULATED COMPONENT			
SPK201	1-235-186-00	ENCAPSULATED COMPONENT			
T51	1-433-335-11	TRANSFORMER, BIAS OSCILLATION			
T71	1-433-335-11	TRANSFORMER, BIAS OSCILLATION			
T81B	1-433-336-11	TRANSFORMER, BIAS OSCILLATION			
T901	1-449-460-11	TRANSFORMER, POWER			
TP1	*1-564-336-00	PIN, CONNECTOR 2P			
TP83B	*1-564-338-00	PIN, CONNECTOR 4P			
TP91	*1-564-508-11	PLUG, CONNECTOR 5P			
X801	1-577-358-21	VIBRATOR, CERAMIC 4MHz			
X802	1-577-360-11	VIBRATOR, CERAMIC 6MHz			

Note: The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.